INDEX

Volume 10, 1965

Soviet Physics–Technical Physics

AUTHOR INDEX

SOVIET PHYSICS–TECHNICAL PHYSICS

Volume 10, 1965

A translation of Zhurnal Tekhnicheskoi Fiziki

ABRAMYAN, E. A.
A Bétatron with Spiral Electron Storage. (E/T) E. A. Abramyan, G. I. Budker, G. B. Glagolev, and A. A. Naumov. 10, 477 (1965) [35, 605 (1965)]

ABRAMYAN, E. A.
Pulsed Iron-Free Synchrotron. (E/T) E. A. Abramyan, I. E. Bender, G. I. Budker, A. Kh. Kadymov, A. A. Naumov, and V. S. Panasyuk. 10, 482 (1965) [35, 612 (1965)]

ABROSIMOV, N. K.
Calculation of the Efficiency of a μ-Meson Channel. (T) N. K. Abrosimov, V. A. Nikolaeva, and S. G. Sherman. 10, 1723 (1966) [35, 2248 (1965)]

ADAMOV, I. Yu.
Instability in an Oscillating-Electron Discharge. I. Microwave Radiation. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, and I. Yu. Adamov. 10, 1082 (1966) [35, 1394 (1965)]

ADAMOV, I. Yu.
Instability in an Oscillating-Electron Discharge. II. Anomalous Diffusion of the Plasma. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, I. K. Nikol'skii, and I. Yu. Adamov. 10, 1088 (1966) [35, 1401 (1965)]

ADONINA, A. I.
Superposed Undamped Surface Waves on a Plane Grating. (T) A. I. Adonina. 10, 1718 (1966) [35, 2242 (1965)]

AFANAS'EVA, E. A.
Operation of Diamond Nuclear Particle Counters in a Strong Electric Field. (E) E. A. Afanas'eva. 10, 730 (1965) [35, 951 (1965)]

AGEEV, V. N.
An Investigation of Chemisorption of Carbon Monoxide on Polycrystalline Tungsten Filaments by the Flash Method. (E) Yu. K. Ustinov, V. N. Ageev, and N. I. Ionov. 10, 851 (1965) [35, 1106 (1965)]

AGEEV, V. N.
Investigation of the Chemisorption of Oxygen on Polycrystalline Tungsten by the Flash Method. (T/E) V. N. Ageev and N. I. Ionov. 10, 1614 (1966) [35, 2109 (1965)]

AIVAZYAN, Yu. M.
Radiation from the Open End of a Planar Semiinfinite Waveguide. (T/E) Yu. M. Aivazyan and D. M. Sedrakyan. 10, 358 (1965) [35, 459 (1965)]

AKIMOV, A. V.
Measurement of Plasma Conductivity by a Radio-Frequency Method. (E/T) A. V. Akimov and O. R. Konenko. 10, 1126 (1966) [35, 1451 (1965)]

AKSHANOV, B. S.
Injection of Charged Particles into a Mirror System. (T/E) B. S. Akshanov, V. G. Marinin, A. I. Strel'tsov, and K. D. Sinel'nikov. 10, 1710 (1966) [35, 2232 (1965)]

ALANAKYAN, Yu. R.
Frequency Doubling in Reflection of a Wave from a Plasma Boundary. (T) Yu. R. Alanakyan. 10, 1202 (1966) [35, 1552 (1965)]

ALEKSANDROV, A. F.
The Impedance of a Plane Capacitor Completely or Partially Filled with a Plasma. I. (T) A. F. Aleksandrov. 10, 24 (1965) [35, 35 (1965)]

ALEKSANDROV, A. F.
The Impedance of a Plane Capacitor Completely or Partially Filled with a Plasma. II. (T) A. F. Aleksandrov. 10, 185 (1965) [35, 226 (1965)]

ALEKSANDROV, A. P.
Effect of Gases on Thermionic Emission of Platinum and Tungsten. (E) L. P. Rekova, Ya. M. Fogel', and A. P. Aleksandrov. 10, 1267 (1966) [35, 1642 (1965)]

ALEKSANDROV, G. N.
Alteration of the Discharge Mechanism in Air as the Spacing Between Planar Electrodes is Increased at Atmospheric Pressure. (E/T) G. N. Aleksandrov. 10, 673 (1965) [35, 875 (1965)]

ALEKSANDROV, G. N.
Mechanism of Corona-to-Spark Transition in Long Air Gaps. (T/E) G. N. Aleksandrov. 10, 948 (1966) [35, 1225 (1965)]

ALEKSIN, V. F.
Bremsstrahlung from a Solid Target in a Plasma. (T) V. F. Aleksin and V. A. Suprunenko. 10, 1465 (1966) [35, 1902 (1965)]

ALIKHANOV, S. G.
Temperature and Density Distribution in a High-Temperature Steady-State Arc. (T) S. G. Alikhanov and S. P. Ivaniya. 10, 433 (1965) [35, 557 (1965)]

ANDREEV, S. I.
Investigation of the Deionization of Plasma at Atmospheric Pressure, Using Super-High Frequencies. (E/T) S. I. Andreev and B. M. Sokolov. 10, 75 (1965) [35, 101 (1965)]

ANDREEV, S. I.
Formation of a Spark Channel in Air. (E) S. I. Andreev and B. M. Sokolov. 10, 1003 (1966) [35, 1295 (1965)]

ANDREEV, S. I.
Development of a Spark Discharge. I. (T/E) S. I. Andreev and B. I. Orlov. 10, 1097 (1966) [35, 1411 (1965)]

ANDRYUKHINA, E. D.
Investigation of a Titanium Plasma Source. (E) E. D. Andryukhina and I. S. Shpigel'. 10, 962 (1966) [35, 1242 (1965)]

ANGELEIKO, V. V.
Cyclotron Excitation of Magnetosonic Waves by a Stream of Charged Particles. (T/E) V. V. Angeleiko and A. B. Kitsenko. 10, 365 (1965) [35, 470 (1965)]

ANISIMOV, A. I.
Decay of a Helium Plasma in a Spherical Chamber. (E) A. I. Anisimov, V. N. Budnikov, and N. I. Vinogradov. 10, 1554 (1966) [35, 2028 (1965)]

ANISIMOV, A. I.
Open Cylindrical Resonators in Plasma Research. (E) A. I. Anisimov, V. N. Budnikov, N. I. Vinogradov, and V. E. Golant. 10, 1566 (1966) [35, 2042 (1965)]

ANKUDINOV, V. A.
Lorentz Ionization of Highly Excited Hydrogen Atoms. (R) N. V. Fedorenko, V. A. Ankudinov, and R. N. Il'in. 10, 461 (1965) [35, 585 (1965)]

ASHKINADZE, B. M.
Investigation of a Resonance High-Frequency Discharge in Crossed Fields. (E) D. A. Ganichev, S. A. Fridrikhov, B. M. Ashkinadze, and A. B. Solgan. 10, 633 (1965) [35, 813 (1965)]

AZOVSKII, Yu. S.
Motion of Plasmoids in Field-Free Space. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 505 (1965) [35, 643 (1965)]

AZOVSKII, Yu. S.
Motion of Plasmoids in a Uniform Axially-Symmetric Magnetic Field. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 1092 (1966) [35, 1405 (1965)]

BAIKOV, I. S.
Excitation of Oscillations in Counterstreaming Inhomogeneous Plasma Streams. (T) I. S. Baikov and A. A. Rukhadze. 10, 1477 (1966) [35, 1913 (1965)]

BAKAI, A. S.
Asymptotic Solution of a Diffusion Problem and Application to the Theory of Storage Rings. (T) A. S. Bakai, G. Ya. Lyubarskii, and V. V. Rozhkov. 10, 1183 (1966) [35, 1525 (1965)]

BAKSHT, F. G.
The Theory of the Low Voltage Arc in Cesium. (T) F. G. Baksht and B. Ya. Moizhes. 10, 214 (1965) [35, 266 (1965)]

BAKSHT, F. G.
Impedance of a Diode Filled with a Rarefied Plasma. (T) F. G. Baksht. 10, 1140 (1966) [35, 1471 (1965)]

BAKSHT, F. G.
On the Theory of the Low-Voltage Arc in Cesium. II. (T) B. Ya. Moizhes, F. G. Baksht, and M. G. Melikiya. 10, 1252 (1966) [35, 1621 (1965)]

BAKSHT, R. B.
Deformation of Intense Waves Traversing a Ferrite Discontinuity in a Transmission Line. (E) G. A. Mesyats and R. B. Baksht. 10, 685 (1965) [35, 889 (1965)]

BAKULIN, E. A.
Investigation of the Double Electrical Layer in a Plasma. (E) E. A. Bakulin, E. V. Stepin, and V. V. Shcherbinina. 10, 1102 (1966) [35, 1419 (1965)]

BAKULINA, I. N.
Emission of Positive and Negative Molecular Ions from Heated Surfaces. (E) I. N. Bakulina, É. Ya. Zandberg, and N. I. Ionov. 10, 437 (1965) [35, 562 (1965)]

BALAKHANOV, V. Ya.
Multiray Radiointerferometer for Plasma Diagnostics. (E) V. Ya. Balakhanov, V. D. Rusanov, and A. R. Striganov. 10, 96 (1965) [35, 127 (1965)]

BALAMATOV, N. N.
Automatic Optimization of Intensity of the Betatron Gamma-Ray Beam. (E) N. N. Balamatov and B. I. Goryachev. 10, 839 (1965) [35, 1091 (1965)]

BARATOV, D. G.
An Investigation of Electron Loss from Traps with Spatially Periodic Helical Magnetic Fields. (E) R. A. Demirkhanov, Yu. V. Kursanov, D. G. Baratov, and G. V. Kharin. 10, 968 (1966) [35, 1250 (1965)]

BARSUKOV, K. A.
Singularities in Radiation Emitted by Point Dipoles Moving in Narrow Cavities in Magnetoactive Media. (T) K. A. Barsukov and V. N. Kadantsev. 10, 1241 (1966) [35, 1606 (1965)]

BASHAROV, R.
Investigation of Cathode Spots in a Pulsed Discharge Between Parallel Electrodes. (E) R. Basharov, E. N. Gavrilovskaya, O. A. Malkin, and E. S. Trekhov. 10, 1428 (1966) [35, 1853 (1965)]

BASKAKOV, S. I.
On the Use of Relativistic Electron Beams for Plasma Investigation. (T) G. I. Zhileiko and S. I. Baskakov. 10, 794 (1965) [35, 1035 (1965)]

BASOV, N. G.
Diffraction Synchronization of Lasers. (T) N. G. Basov, É. M. Belenov, and V. S. Letokhov. 10, 845 (1965) [35, 1098 (1965)]

BATANOV, G. M.
The Motion of a Plasma Stream in a Toroidal Magnetic Field. (E) G. M. Batanov, M. A. Ivanovskii, and I. S. Shpigel'. 10, 196 (1965) [35, 242 (1965)]

BEKMUKHAMBETOV, E. S.
Thermionic Converter Operation in the Presence of Krypton. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1318 (1966) [35, 1767 (1965)]

BEKMUKHAMBETOV, E. S.
Cesium Thermionic Converter Operation in the Presence of Xenon. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1320 (1966) [35, 1709 (1965)]

BELENOV, É. M.
Diffraction Synchronization of Lasers. (T) N. G. Basov, É. M. Belenov, and V. S. Letokhov. 10, 845 (1965) [35, 1098 (1965)]

BELENOV, É. M.
Theory of Coupled Optical Masers. (T) É. M. Belenov and V. S. Letokhov. 10, 1628 (1966) [35, 2126 (1965)]

BELOUSOVA, L. E.
Note on the Diffusion Theory of the Positive Column. (T/E) L. E. Belousova. 10, 369 (1965) [35, 475 (1965)]

BELOV, V. P.
Nonlinear $\nu_r = Nn/q + \Delta$ Resonances in the Sectored Cyclotron. (T) V. P. Belov. 10, 1384 (1966) [35, 1791 (1965)]

BELYANTSEV, A. M.
The Structure of the Front of Electromagnetic Shock Waves in Transmission Lines with Nonlinear Parameters. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 531 (1965) [35, 677 (1965)]

BELYANTSEV, A. M.
The Structure of Shock Waves in Nonlinear Transmission Lines with Delayed Excitation of the Internal Degrees of Freedom. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 540 (1965) [35, 690 (1965)]

BENDER, I. E.
Pulsed Iron-Free Synchrotron. (E/T) E. A. Abramyan, I. E. Bender, G. I. Budker, A. Kh. Kadymov, A. A. Naumov, and V. S. Panasyuk. 10, 482 (1965) [35, 612 (1965)]

BERESNEV, B. I.
Effect of Pressure on the Plasticity of Metals. (E) L. D. Livshits, Yu. N. Ryabinin, and B. I. Beresnev. 10, 278 (1965) [35, 348 (1965)]

BEREZHETSKII, M. S
Magnetic Surfaces of a Stellarator with an $l = 2$ Winding. (E) M. S. Berezhetskii, S. E. Grebenshchikov, A. P. Popryadukhin, and I. S. Shpigel'. 10, 1662 (1966) [35, 2167 (1965)]

BEZIRGANYAN, P. A.
Scattering of X Rays from a Point Source in Gases, Liquids, and Amorphous Solids with Consideration of the Duration of Coherent Radiation. (T) P. A. Bezirganyan. 10, 287 (1965) [35, 359 (1965)]

BEZIRGANYAN, P. A.
Scattering of X Rays in Gases, Liquids, and Amorphous Solids for Plane Incident Waves. (T) P. A. Bezirganyan. 10, 293 (1965) [35, 368 (1965)]

BEZIRGANYAN, P. A.
Scattering of X Rays in a Gas Consisting of Atoms of Finite Size, Considering the Duration of the Coherent Radiation Pulse. (T) P. A. Bezirganyan. 10, 1314 (1966) [35, 1701 (1965)]

BOGDANKEVICH, O. V.
Use of Laser Radiation to Create a Strong Electron Source. (E) O. V. Bogdankevich, V. Yu. Sudzilovskii, and A. A. Lozhnikov. 10, 1573 (1966) [35, 2052 (1965)]

BOGDANOV, A. V.
Magnetohydrodynamic Waves in a Plasma Penetrated by a Stream of Charged Paricles. (T) A. V. Bogdanov. 10, 625 (1965) [35, 803 (1965)]

BOLOTIN, L. I.
Investigation of a Linear Induction Accelerator. (E/T) E. I. Lutsenko, L. I. Bolotin, Ya. B. Fainberg, and I. F. Kharchenko. 10, 499 (1965) [35, 635 (1965)]

BOLOTIN, L. I.
Time Characteristics of the Microwave Oscillations in the Development of a Beam-Plasma Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, L. I. Bolotin, and I. F. Kharchenko. 10, 1069 (1966) [35, 1378 (1965)]

BONCH-OSMOLOVSKII, A. G.
Motion of a Charged Particle in the Field of a Slow Plane Wave. (T) A. G. Bonch-Osmolovskii. 10, 1360 (1966) [35, 1757 (1965)]

BONDARENKO, I. I.
The Effect of a Normal Magnetic Field Upon a Low-Voltage Arc Discharge in Cesium Vapors. (E) I. I. Bondarenko, Yu. K. Gus'kov, and M. A. Lebedev. 10, 586 (1965) [35, 751 (1965)]

BOROVIK, E. S.
Pulsed Heating of a High-Pressure Arc in Argon. I. (E) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 937 (1966) [35, 1210 (1965)]

BOROVIK, E. S.
Pulsed Heating of a High-Pressure Arc in Argon. II. (E/T) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 943 (1966) [35, 1218 (1965)]

BRANOVER, G. G.
The Characteristics of the Transverse Magnetic Field Effect on Turbulent Flow of Liquid Metal at Different Reynolds Numbers. (E) G. G. Branover and O. A. Lielausis. 10, 191 (1965) [35, 235 (1965)]

BUCHEL'NIKOVA, N. S.
Instability and Anamolous Diffusion in a Potassium Plasma. (E) N. S. Buchel'nikova, A. M. Kudryavtsev, and R. A. Salimov. 10, 53 (1965) [35, 72 (1965)]

BUDKER, G. I.
A Betatron with Spiral Electron Storage. (E/T) E. A. Abramyan, G. I. Budker, G. B. Glagolev, and A. A. Naumov. 10, 477 (1965) [35, 605 (1965)]

BUDKER, G. I.
Pulsed Iron-Free Synchrotron. (E/T) E. A. Abramyan, I. E. Bender, G. I. Budker, A. Kh. Kadymov, A. A. Naumov, and V. S. Panasyuk. 10, 482 (1965) [35, 612 (1965)]

BUDNIKOV, V. N.
Decay of a Helium Plasma in a Spherical Chamber. (E) A. I. Anisimov, V. N. Budnikov, and N. I. Vinogradov. 10, 1554 (1966) [36, 2028 (1966)]

BUDNIKOV, V. N.
Open Cylindrical Resonators in Plasma Research. (E) A. I. Anisimov, V. N. Budnikov, N. I. Vinogradov, and V. E. Golant. 10, 1566 (1966) [35, 2042 (1965)]

BUGAEV, S. P.
Nanosecond Time Development of a Pulsed Discharge at a Dielectric-Vacuum Interface. (E) S. P. Bugaev and G. A. Mesyats. 10, 930 (1966) [35, 1202 (1965)]

BUSOL, F. I.
Supersonic Hydrogen Jet in Vacuum. (E) V. B. Yuferov, V. A. Kovalenko, E. I. Skibenko, and F. I. Busol. 10, 1177 (1966) [35, 1522 (1965)]

BYRNEV, P. Kh.
Figures of Equilibrium of Toroidal Current Surfaces in a Gas in the Presence of Surface Tension. (T) P. Kh. Byrnev and I. M. Matora. 10, 1363 (1966) [35, 1762 (1965)]

CHAIKOVSKII, É. F.
Positive Surface Ionization of Potassium on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Pütsyn. 10, 410 (1965) [35, 528 (1965)]

CHAIKOVSKII, É. F.
Temperature Hysteresis in Positive Surface Ionization and the Work Function of a Homogeneous Emitter. (E) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Pütsyn. 10, 871 (1965) [35, 1132 (1965)]

CHAIKOVSKII, É. F.
Positive Surface Ionization of Na on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Pütsyn. 10, 893 (1965) [35, 1158 (1965)]

CHAIKOVSKII, É. F.
Optimum Conditions and Thresholds for Positive Surface Ionization. (E/T) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Pütsyn. 10, 1156 (1966) [35, 1493 (1965)]

CHEKMAREV, I. B.
Determination of the Velocities of the Plasma in a Glow Discharge in a Rectangular Channel in the Presence of Crossed Fields. (E) I. B. Chekmarev. 10, 742 (1965) [35, 964 (1965)]

CHEKMAREV, I. B.
Effect of Magnetic and Electric Fields on the Electron Temperature in an MHD Channel. (T) I. I. Shakhnov and I. B. Chekmarev. 10, 1054 (1966) [35, 1359 (1965)]

CHEKMAREV, I. B.
Positive Column in the Inverted Homopolar. (T) É. M. Drobyshevskii and I. B. Chekmarev. 10, 1206 (1966) [35, 1558 (1965)]

CHEKMAREV, I. B.
Glow Discharge Between Coaxial Dielectric Cylinders in Axial Electric and Radial Magnetic Fields. (T) I. B. Chekmarev. 10, 1519 (1966) [36, 1978 (1965)]

CHERKASOV, E. M.
Investigation of the High-Frequency Discharge in a Neon-Helium Laser. (E) N. I. Krindach, I. A. Silin-Bekchrin, L. N. Tunitskii, and E. M. Cherkasov. 10, 1297 (1966) [35, 1678 (1965)]

CHERNIKOV, V. A.
Ruby Laser Interferometric Measurement of Electron Concentration in a Plasma. (E) V. E. Mitsuk, V. I. Savoskin, and V. A. Chernikov. 10, 891 (1965) [35, 1156 (1965)]

CHIBISOV, M. I.
Resonance Charge Transfer in Inert Gases. (T) B. M. Smirnov and M. I. Chibisov. 10, 88 (1965) [35, 117 (1965)]

CHIBISOV, M. I.
Isothermal Nonstationary Gas Motion. (T) M. I. Chibisov. 10, 93 (1965) [35, 123 (1965)]

CHIRIKOV, B. V.
Focusing of a High-Intensity Electron Beam in an Accelerating Tube. (T) I. N. Meshkov and B. V. Chirikov. 10, 1688 (1966) [35, 2202 (1965)]

CHISTYAKOV, P. N.
Small Postdischarge Emission as an Indicator of the Surface State of Electrodes in Experiments of Vacuum Breakdown. (E) P. N. Chistyakov and N. V. Tatarinova. 10, 1035 (1966) [36, 1333 (1965)]

CHUKOVA, Yu. P.
The Rectification of Current by an Electroluminescent Condenser. (E/T) Yu. P. Chukova and M. V. Fok. 10, 595 (1965) [35, 762 (1965)]

CHUKUVA, Yu. P.
The Temperature Dependence of Current Rectified by Electroluminescent Condensers. (T) M. V. Fok and Yu. P. Chukuva. 10, 877 (1965) [35, 1139 (1965)]

CHUKOVA, Yu. P.
Frequency Dependence of Current Rectified by an Electroluminescent Condenser. (E) M. V. Fok and Yu. P. Chukova. 10, 1583 (1966) [35, 2065 (1965)]

DAMASKINSKII, E. A.
Detection of Several Particles in Acoustic Spark Chambers. (T) G. M. Gorodinskii, E. A. Damaskinskii, and A. M. Romanov. 10, 1472 (1966) [35, 1910 (1965)]

DANELIYA, I. A.
Transformation of a Longitudinal High-Frequency Field by an Ion-Sound Spectrum. (T) I. A. Daneliya. 10, 142 (1965) [35, 174 (1965)]

DANIEL', E. V.
Development of the Channel of a Surface Spark Discharge. (E) E. V. Daniel'. 10, 600 (1965) [35, 769 (1965)]

DANILKIN, I. S.
Conversion of Two Transverse Waves Into a Longitudinal Wave in a Collisionless Plasma. (T) I. S. Danilkin. 10, 524 (1965) [35, 667 (1965)]

DAVYDOVA, T. A.
On Cyclotron Instability of Plasma with a Nonmonotonic Ion-Distribution Function. (T) T. A. Davydova. 10, 787 (1965) [35, 1024 (1965)]

DEMCHENKO, P. A.
Application of Fast Particle Beams to the Study of Plasmoids. (E) L. I. Krupnik, N. G. Shultka, and P. A. Demchenko. 10, 556 (1965) [35, 711 (1965)]

DEMIDENKO, I. I.
The Possibility of Instability Formation in a Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 119 (1965) [35, 154 (1965)]

DEMIDENKO, I. I.
Study of Some Characteristics of Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 640 (1965) [35, 823 (1965)]

DEMIRKHANOV, R. A.
Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. I. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

DEMIRKHANOV, R. A.
Study of the Convection of Plasma Electrons by a Traveling Magnetic Wave. (E) R. A. Demirkhanov, I. Ya. Kadysh, I. S. Fursa, and Yu. S. Khodyrev. 10, 174 (1965) [35, 212 (1965)]

DEMIRKHANOV, R. A.
An Investigation of Electron Loss from Traps with Spatially Periodic Helical Magnetic Fields. (E) R. A. Demirkhanov, Yu. V. Kursanov, D. G. Baratov, and G. V. Kharin. 10, 968 (1966) [35, 1250 (1965)]

DEM'YANOV, A. V.
On the Design of Double-Focusing Magnetic Spectrometers. (T) N. I. Tarantin and A. V. Dem'yanov. 10, 154 (1965) [35, 186 (1965)]

DERYUGIN, I. A.
Investigation of Faraday UHF Devices Under Variable Magnetization Conditions. (T/E) I. A. Deryugin, V. L. Strizhevskii, and P. S. Kuts. 10, 424 (1965) [35, 546 (1965)]

DIDENKO, A. N.
Effect of Loading by the Beam on the Shunt Resistance of Accelerating Systems in Electron Cyclical Accelerators. (T) A. N. Didenko and G. P. Fomenko. 10, 235 (1965) [35, 293 (1965)]

DIDENKO, A. N.
Cherenkov Radiation During the Motion of Particles in a Cylindrical Resonator Located in a Focusing Magnetic Field. (T) V. P. Grigor'ev and A. N. Didenko. 10, 238 (1965) [35, 298 (1965)]

DIDENKO, A. N.
The Use of the Normal Mode Method for Designing Iris-Loaded Waveguides of Rectangular Cross Section. (T) A. N. Didenko. 10, 744 (1965) [35, 967 (1965)]

DOBRETSOV, L. N.
Effect of Electric Field on Surface Ionization on Metals. (T/E) L. N. Dobretsov. 10, 416 (1965) [35, 535 (1965)]

DOKUCHAEV, V. P.
Excitation of Magnetosonic Waves by Moving Radiators. (T) V. P. Dokuchaev and V. D. Logacheva. 10, 619 (1965) [35, 794 (1965)]

DONSKOI, A. V.
Determination of the Conductivity of a High-Frequency Induction Discharge in Argon by Calorimetric and Spectral Methods. (E) S. V. Dresvin, A. V. Donskoi, and V. M. Gol'dfarb. 10, 1270 (1966) [35, 1646 (1965)]

DONSKOI, K. V.
Study of the Stationary Flow of Weakly Ionized Plasma in the Homopolarnik. (E/T) K. V. Donskoi and É. M. Drobyshevskii. 10, 62 (1965) [35, 84 (1965)]

DRESVIN, S. V.
Determination of the Conductivity of a High-Frequency Induction Discharge in Argon by Calorimetric and Spectral Methods. (E) S. V. Dresvin, A. V. Donskoi, and V. M. Gol'dfarb. 10, 1270 (1966) [35, 1646 (1965)]

DROBYSHEVSKII, É. M.
Study of the Stationary Flow of Weakly Ionized Plasma in the Homopolarnik. (E/T) K. V. Donskoi and É. M. Drobyshevskii. 10, 62 (1965) [35, 84 (1965)]

DROBYSHEVSKII, É. M.
Positive Column in the Inverted Homopolar. (T) É. M. Drobyshevskii and I. B. Chekmarev. 10, 1206 (1966) [35, 1558 (1965)]

DROKIN, A. I.
The Barkhausen Effect in a Nickel-Cobalt Ferrite Single Crystal. (E) N. M. Salanskii, A. I. Drokin, R. P. Smolin, and S. Sh. Gendelev. 10, 276 (1965) [35, 345 (1965)]

DUPLENKOV, D. A.
Coupled Annular Slot Antennas Mounted on a Prolate Spheroid. (T) D. A. Duplenkov and A. N. Kovalenko. 10, 1109 (1966) [35, 1428 (1965)]

DUSHIN, L. A.
Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]

DUSHIN, L. A.
Instability in an Oscillating-Electron Discharge. I. Microwave Radiation. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, and I. Yu. Adamov. 10, 1082 (1966) [35, 1394 (1965)]

DUSHIN, L. A.
Instability in an Oscillating-Electron Discharge. II. Anomalous Diffusion of the Plasma. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, I. K. Nikol'skii, and I. Yu. Adamov. 10, 1088 (1966) [35, 1401 (1965)]

DUSHIN, V. K.
Flow of a Supersonic Stream of Nonequilibrium-Dissociating Air Around Obtuse Bodies. (E) V. K. Dushin and Yu. P. Lun'kin. 10, 1133 (1966) [35, 1461 (1965)]

DYAMLOV, V. G.
Investigation of a Θ-Pinch Plasma with an Azimuthal Magnetic Field. (E) Ya. F. Volkov, V. G. Dyamlov, and N. I. Mitina. 10, 797 (1965) [35, 1039 (1965)]

DYMNIKOV, A. D.
Effect of Geometrical Parameters on Optical Characteristics of a System of Four Quadrupole Lenses Similar to an Axisymmetric Lens. (T/E) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 340 (1965) [35, 431 (1965)]

DYMNIKOV, A. D.
Spherical Aberration of the Width of the Line Image in the Combined Quadrupole Lens. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 592 (1965) [35, 759 (1965)]

DYMNIKOV, A. D.
Spherical Aberration of a Combined Quadrupole Lens with a Bell-Shaped Field Distribution. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 822 (1965) [35, 1068 (1965)]

DYUBKO, S. F.
Experimental Investigation of the Fundamental-Mode Field Distribution in Open Resonators with Spherical Mirrors. (E) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 223 (1965) [35, 279 (1965)]

DYUBKO, S. F.
Instability of Confocal Systems. (E/T) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 1394 (1966) [35, 1806 (1965)]

DYUZHEV, G. A.
On the Most Efficient Regimes for Operation of a Therminoic Converter. (T/E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, and V. G. Yur'ev. 10, 895 (1965) [35, 1160 (1965)]

DYUZHEV, G. A.
Volt-Ampere Characteristics of a Thermionic Converter. (E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, B. I. Tsirkel', and V. G. Yur'ev. 10, 1575 (1966) [35, 2054 (1965)]

ÉIDMAN, V. Ya.
On Longitudinal Oscillations of an Inhomogeneous Plasma. (T) V. Ya. Éidman. 10, 1339 (1966) [35, 1730 (1965)]

EKHICHEV, O. I.
Mass-Spectrometer Study of a Low-Pressure Positive-Ion Source. (E) O. I. Ekhichev, G. N. Zinchenko, N. S. Zinchenko, I. M. Karnaukhov, and R. P. Slabospitskii. 10, 1461 (1966) [35, 1897 (1965)]

FAINBERG, Ya. B.
Investigation of a Linear Induction Accelerator. (E/T) E. I. Lutsenko, L. I. Bolotin, Ya. B. Fainberg, and I. F. Kharchenko. 10, 499 (1965) [35, 635 (1965)]

FAINBERG, Ya. B.
Formation of Plasma in the Development of a Beam Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, and I. F. Kharchenko. 10, 1064 (1966) [35, 1372 (1965)]

FAINBERG, Ya. B.
Time Characteristics of the Microwave Oscillations in the Development of a Beam-Plasma Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, L. I. Bolotin, and I. F. Kharchenko. 10, 1069 (1966) [35, 1378 (1965)]

FAKHRUTDINOV, É. N.
Pulse Characteristics of Modified Penning Discharge Tubes. (E) Yu. E. Kreindel' and É. N. Fakhrutdinov. 10, 249 (1965) [35, 312 (1965)]

FEDORCHENKO, V. D.
Interaction Between High-Frequency and Ion Acoustic Waves in a Plasma. (E) V. D. Fedorchenko, V. I. Muratov, and B. N. Rutkevich. 10, 1549 (1966) [35, 2021 (1965)]

FEDORENKO, N. V.
Lorentz Ionization of Highly Excited Hydrogen Atoms. (E) N. V. Fedorenko, V. A. Ankudinov, and R. N. Il'in. 10, 461 (1965) [35, 585 (1965)]

FEDOSEEV, E. P.
Nonlinear Study of Spatial Focusing in Magnetic Focusing Systems with r^{-1} Fields. (T) A. F. Malov, V. A. Suzdalev, and E. P. Fedoseev. 10, 705 (1965) [35, 914 (1965)]

FEDULOV, V. I.
Bolometer Measurement of Emission from Argon Ionized by a Shock Wave. (E) Yu. N. Redkoborodyi and V. I. Fedulov. 10, 1275 (1966) [35, 1652 (1965)]

FIDEL'SKAYA, R. P.
Design of an Accelerating Tube with Inclined Electrodes. (T) V. S. Kuznetsov and R. P. Fidel'skaya. 10, 1537 (1966) [35, 2004 (1965)]

FILATOVA, T. M.
Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. L. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

FINAGIN, B. A.
A Study of the Reflection of the Atomic Beams of Potassium Rubidium, and Cesium from a Quartz Plate. (E) L. L. Myasnikov, L. D. Raigorodskii, and B. A. Finagin. 10, 421 (1965) [35, 542 (1965)]

FISHKOVA, T. Ya.
Effect of Geometrical Parameters on Optical Characteristics of a System of Four Quadrupole Lenses Similar to an Axisymmetric Lens. (T/E) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 340 (1965) [35, 431 (1965)]

FISHKOVA, T. Ya.
Spherical Aberration of the Width of the Line Image in the Combined Quadrupole Lens. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 592 (1965) [35, 759 (1965)]

FISHKOVA, T. Ya.
Spherical Aberration of a Combined Quadrupole Lens with a Bell-Shaped Field Distribution. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 822 (1965) [35, 1068 (1965)]

FLAKS, I. P.
Ionization of Gases by Alkali Ions. (E) I. P. Flaks, B. I. Kikiani, and G. N. Ogurtsov. 10, 1590 (1966) [35, 2076 (1965)]

FOGEL', A. A.
Superconducting Niobium-Gallium Alloys. (E) Z. A. Guts, N. I. Krivko, V. K. Morozova, T. A. Sidorova, and A. A. Fogel'. 10, 1295 (1966) [35, 1675 (1965)]

FOGEL', Ya. M.
Effect of Gases on Thermionic Emission of Platinum and Tungsten. (E) L. P. Rekova, Ya. M. Fogel', and A. P. Aleksandrov. 10, 1267 (1966) [35, 1642 (1965)]

FOK, M. V.
The Rectification of Current by an Electroluminescent Condenser. (E/T) Yu. P. Chukova and M. V. Fok. 10, 595 (1965) [35, 762 (1965)]

FOK, M. V.
The Temperature Dependence of Current Rectified by Electroluminescent Condensers. (T) M. V. Fok and Yu. P. Chukuva. 10, 877 (1965) [35, 1139 (1965)]

FOK, M. V.
Frequency Dependence of Current Rectified by an Electroluminescent Condenser. (E) M. V. Fok and Yu. P. Chukova. 10, 1583 (1966) [35, 2065 (1965)]

FOMENKO, G. P.
Effect of Loading by the Beam on the Shunt Resistance of Accelerating Systems in Electron Cyclical Accelerators. (T) A. N. Didenko and G. P. Fomenko. 10, 235 (1965) [35, 293 (1965)]

FOMENKO, G. P.
Investigation of an Electron Beam from an Annular Gun. (E/T) L. I. Minenko and G.P. Fomenko. 10, 551 (1965) [35, 705 (1965)]

FOMENKO, V. S.
Thermionic Emission of CeC_2. (E) Yu. B. Paderno, V. S. Fomenko, I. A. Podchernyaeva, and G. N. Makarenko. 10, 1434 (1966) [35, 1860 (1965)]

FOMIN, A. A.
A Cylinder in a Field Generated by Current-Carrying Conductors. (T) A. A. Fomin. 10, 758 (1965) [35, 983 (1965)]

FOMIN, A. A.
Infinite Cylinder in the Field of a Coaxial System of Windings. (T) A. A. Fomin. 10, 1116 (1966) [35, 1438 (1965)]

FREIDMAN, G. I.
The Structure of the Front of Electromagnetic Shock Waves in Transmission Lines with Nonlinear Parameters. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 531 (1965) [35, 677 (1965)]

FREIDMAN, G. I.
The Structure of Shock Waves in Nonlinear Transmission Lines with Delayed Excitation of the Internal Degrees of Freedom. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 540 (1965) [35, 690 (1965)]

FRIDRIKHOV, S. A.
Investigation of a Resonance High-Frequency Discharge in Crossed Fields. (E) D. A. Ganichev, S. A. Fridrikhov, B. M. Ashkinadze, and A. B. Solgan. 10, 633 (1965) [35, 813 (1965)]

FROLOV, N. Ya.
Electromagnetic Excitation of a Spherical Radially Stratified Medium. (T) D. M. Sazonov and N. Ya. Frolov. 10, 763 (1965) [35, 990 (1965)]

FURSA, I. S.
Study of the Convection of Plasma Electrons by a Traveling Magnetic Wave. (E) R. A. Demirkhanov, I. Ya. Kadysh, I. S. Fursa, and Yu. S. Khodyrev. 10, 174 (1965) [35, 212 (1965)]

GABOVICH, M. D.
Formation of a Quasineutral Flux of Accelerated Ions in the Plasma Leaving an Ion Source. (E/T) M. D. Gabovich, L. I. Ramanyuk, and E. A. Lozovaya. 10, 70 (1965) [35, 94 (1965)]

GALAKTIONOV, B. V.
The Anisotropy in the Electron Energy Distribution in the Alpha Setup. (E) B. V. Galaktionov, M. M. Larionov, and K. A. Podushnikova. 10, 140 (1965) [35, 172 (1965)]

GALKOV, V. A.
Minimum-Length Electron Bunches in a Klystron Buncher with Space-Charge Taken Into Account. (T/E) V. A. Galkov and B. A. Snedkov. 10, 1367 (1966) [35, 1767 (1965)]

GALL', L. N.
Use of a System with Retarding Potentials in Mass Spectrometry. (T/E) L. N. Gall' and N. K. Vasil'eva. 10, 1149 (1966) [35, 1483 (1965)]

GANICHEV, D. A.
Investigation of a Resonance High-Frequency Discharge in Crossed Fields. (E) D. A. Ganichev, S. A. Fridrikhov, B. M. Ashkinadze, and A. B. Solgan. 10, 633 (1965) [35, 813 (1965)]

GAPONOV, A. V.
The Structure of the Front of Electromagnetic Shock Waves in Transmission Lines with Nonlinear Parameters. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 531 (1965) [35, 677 (1965)]

GAPONOV, A. V.
The Structure of Shock Waves in Nonlinear Transmission Lines with Delayed Excitation of the Internal Degrees of Freedom. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 540 (1965) [35, 690 (1965)]

GAVRILOVSKAYA, E. N.
Investigation of Cathode Spots in a Pulsed Discharge Between Parallel Electrodes. (E) R. Basharov, E. N. Gavrilovskaya, O. A. Malkin, and E. S. Trokhov. 10, 1428 (1966) [35, 1853 (1965)]

GAZAZYAN, É. D.
Radiation of a Point Charge in a Waveguide in the Presence of an External Magnetic Field. (E) É. D. Gazazyan and O. S. Mergelyan. 10, 125 (1965) [35, 158 (1965)]

GAZAZYAN, É. D.
Interaction of Charged Particles and a Gyrotropic Ferrite. (T/E) É. D. Gazazyan and O. S. Mergelyan. 10, 419 (1965) [35, 539 (1965)]

GEKKER, I. R.
Experimental Study of Plasma Acceleration Brought About by the Gradient of a UHF Field. (E) I. R. Gekker, T. G. Konstantinova, G. S. Luk'yanchikov, and K. F. Sergeichev. 10, 450 (1965) [35, 577 (1965)]

GEKKER, I. R.
Study of Plasma Motion in a Radiation Accelerator by uhf Methods. (E) I. R. Gekker and G. S. Luk'yanchikov. 10, 1026 (1966) [35, 1323 (1965)]

GENDELEV, S. Sh.
The Barkhausen Effect in a Nickel-Cobalt Ferrite Single Crystal.. (E) N. M. Salanskii, A. I. Drokin, R. P. Smolin, and S. Sh. Gendelev. 10, 276 (1965) [35, 345 (1965)]

GIORGADZE, N. P.
Nonlinear Interaction of a Beam of Charged Particles with Plasma. (T) N. P. Giorgadze. 10, 329 (1965) [35, 416 (1964)]

GIORGADZE, N. P.
Interaction of Circularly Polarized Waves in a Cold Plasma. (T) N. P. Giorgadze. 10, 912 (1966) [35, 1177 (1965)]

GIORGADZE, N. P.
Interaction of a Charged-Particle Beam with a Bounded Plasma. (T) N. P. Giorgadze and D. G. Lominadze. 10, 1349 (1966) [35, 1743 (1965)]

GLAGOLEV, G. B.
A Betatron with Spiral Electron Storage. (E/T) E. A. Abramyan, G. I. Budker, G. B. Glagolev, and A. A. Naumov. 10, 477 (1965) [35, 605 (1965)]

GLASKO, V. B.
"Mixing" of Particles in a Magnetic Trap with a "Combined" Field. (T) B. I. Volkov, V. B. Glasko, A. G. Sveshnikov, and N. N. Semashko. 10, 1229 (1966) [35, 1590 (1965)]

GLASKO, V. B.
Ion Retardation in an Arc Discharge in a Magnetic Field. (T/E) V. B. Glasko, A. G. Sveshnikov, N. N. Semashko, and A. V. Timofeev. 10, 1596 (1966) [35, 2083 (1965)]

GLIKMAN, L. G.
Solution of the Equations of Motion of Nonrelativistic Charged Particles in a Certain Type of Alternating Electromagnetic Field. (T) L. G. Glikman, V. M. Kel'man, and E. M. Yakushev. 10, 1532 (1966) [35, 1997 (1965)]

GOLANT, V. E.
Electromagnetic Radiation from a Magnetized Plasma Traversed by an Electron Beam. (E) V. E. Golant, A. P. Zhilinskii, I. F. Liventseva, and I. E. Sakharov. 10, 1559 (1966) [35, 2034 (1965)]

GOLANT, V. E.
Open Cylindrical Resonators in Plasma Research. (E) A. I. Anisimov, V. N. Budnikov, N. I. Vinogradov, and V. E. Golant. 10, 1566 (1966) [35, 2042 (1965)]

GOLANT, V. E.
Toroidal Device for Adiabatic Plasma Compression. (E) V. E. Golant, M. G. Kaganskii, V. A. Ovsyannikov, and A. D. Piliya. 10, 1669 (1966) [35, 2176 (1965)]

GOL'DFARB, V. M.
Determination of the Conductivity of a High-Frequency Induction Discharge in Argon by Calorimetric and Spectral Methods. (E) S. V. Dresvin, A. V. Donskoi, and V. M. Gol'dfarb. 10, 1270 (1966) [35, 1646 (1965)]

GONCHARENKO, A. M.
Electromagnetic Properties of an Anisotropically-Loaded Rectangular Waveguide. (T) A. M. Goncharenko. 10, 1121 (1966) [35, 1444 (1965)]

GORBANYUK, A. G.
Polarization of Plasma Moving in a Curved Magnetic Field. (E) V. S. Voitsenya, A. G. Gorbanyuk, I. N. Onishchenko, V. V. Shkoda, and B. G. Safronov. 10, 1032 (1966) [35, 1330 (1965)]

GORBENKO, É. N.
Determination of Some Parameters of an Electron-Ion Oscillatory Discharge. (E) M. I. Korsunskii and É. N. Gorbenko. 10, 923 (1966) [35, 1193 (1965)]

GORBENKO, É. N.
Some Properties of an Oscillatory Electron-Ion Discharge. (E) M. I. Korsunskii and É. N. Gorbenko. 10, 981 (1966) [35, 1265 (1965)]

GORDIENKO, V. P.
Investigation of Deformation of Single-Turn Solenoids in a Relatively Slowly Growing High-Intensity Magnetic Field. (E) V. P. Gordienko and G. A. Shneerson. 10, 834 (1965) [35, 1084 (1965)]

GORODINSKII, G. M.
Detection of Several Particles in Acoustic Spark Chambers. (T) G. M. Gorodinskii, E. A. Damaskinskii, and A. M. Romanov. 10, 1472 (1966) [35, 1910 (1965)]

GORYACHEV, B. I.
Automatic Optimization of Intensity of the Betatron Gamma-Ray Beam. (E) N. N. Balamatov and B. I. Goryachev. 10, 839 (1965) [35, 1091 (1965)]

GRAEV, M. I.
Concerning the Structure of Asymmetric Toroidal Magnetic Fields. (T) M. I. Graev, M. S. Mikhailova, and A. I. Morozov. 10, 920 (1966) [35, 1189 (1965)]

GREBENSHCHIKOV, S. E
Magnetic Surfaces of a Stellarator with an $l = 2$ Winding. (E) M. S. Berezhetskii, S. E. Grebenshchikov, A. P. Popryadukhin, and I. S. Shpigel'. 10, 1662 (1966) [35, 2167 (1965)]

GRECHIKHIN, L. I.
Production and Investigation of Shock Waves and Supersonic Plasma Streams in an Electric Shock Tube. (E) L. I. Grechikhin and L. Ya. Min'ko. 10, 1128 (1966) [35, 1454 (1965)]

GRIGOR'EV, V. N.
Surface Tension of H_2—HD and HD—D_2 Solutions. (E) V. N. Grigor'ev. 10, 266 (1965) [35, 332 (1965)]

GRIGOR'EV, V. P.
Cherenkov Radiation During the Motion of Particles in a Cylindrical Resonator Located in a Focusing Magnetic Field. (T) V. P. Grigor'ev and A. N. Didenko. 10, 238 (1965) [35, 298 (1965)]

GRINBERG, A. A.
Excitation of Ultrasonic Oscillations in Germanium by Current Pulses. (Thermoacoustic Oscillations). (E/T) A. A. Grinberg, A. A. Kastal'skii, and S. M. Ryvkin. 10, 298 (1965) [35, 376 (1965)]

GULYAEV, A. I.
Vortex Tubes and the Vortex Effect (Ranque Effect). (E/T) A. I. Gulyaev. 10, 1441 (1966) [35, 1869 (1965)]

GURVICH, D. B.
Calculation of a Low-Frequency Electromagnetic Field in Coordinates for which Laplace's Equation is Separable. (T) D. B. Gurvich and E. A. Svyadoshch. 10, 1657 (1966) [35, 2160 (1965)]

GUSEVA, L. G.
The Nature of the Positive Volt-Ampere Characteristics of a Low-Pressure Electric Discharge. (E) B. N. Klyarfel'd and L. G. Guseva. 10, 244 (1965) [35, 306 (1965)]

GUS'KOV, Yu. K.
Electrical Breakdown Through a Gap in Glass in an Atmosphere of Cesium Vapor. (E) Yu. K. Gus'kov, S. Ya. Lebedev, and V. G. Rodionova. 10, 123 (1965) [35, 156 (1965)]

GUS'KOV, Yu. K.
The Effect of a Normal Magnetic Field Upon a Low-Voltage Arc Discharge in Cesium Vapors. (E) I. I. Bondarenko, Yu. K. Gus'kov, and M. A. Lebedev. 10, 586 (1965) [35, 751 (1965)]

GUS'KOV, Yu. K.
Thermionic Converter Operation in the Presence of Krypton. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1318 (1966) [35, 1707 (1965)]

GUS'KOV, Yu. K.
Cesium Thermionic Converter Operation in the Presence of Xenon. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1320 (1966) [35, 1709 (1965)]

GUTS, Z. A.
Superconducting Niobium-Gallium Alloys. (E) Z. A. Guts, N. I. Krivko, V. K. Morozova, T. A. Sidorova, and A. A. Fogel'. 10, 1295 (1966) [35, 1675 (1965)]

GUZHOVSKII, I. T.
Motion of Plasmoids in Field-Free Space. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 505 (1965) [35, 643 (1965)]

GUZHOVSKII, I. T.
Motion of Plasmoids in a Uniform Axially-Symmetric Magnetic Field. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 1092 (1966) [35, 1405 (1965)]

IL'ENKO, B. P.
Polarization of Plasma Moving in a Helical Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1232 (1966) [35, 1594 (1965)]

IL'ENKO, B. P.
Polarization of Plasma Moving in a Toroidal Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1235 (1966) [35, 1598 (1965)]

IL'ENKO, B. P.
Polarization of Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1238 (1966) [35, 1602 (1965)]

IL'IN, R. N.
Lorentz Ionization of Highly Excited Hydrogen Atoms. (R) N. V. Fedorenko, V. A. Ankudinov, and R. N. Il'in. 10, 461 (1965) [35, 585 (1965)]

IONOV, N. I.
Emission of Positive and Negative Molecular Ions from Heated Surfaces. (E) I. N. Bakulina, É. Ya. Zandberg, and N. I. Ionov. 10, 437 (1965) [35, 562 (1965)]

IONOV, N. I.
An Investigation of Chemisorption of Carbon Monoxide on Polycrystalline Tungsten Filaments by the Flash Method. (E) Yu. K. Ustinov, V. N. Ageev, and N. I. Ionov. 10, 851 (1965) [35, 1106 (1965)]

IONOV, N. I.
Mass-Spectrometer Determination of the Heat of Vaporization of Atoms and Positive Ions in Sublimation of Polycrystalline Rhenium, Tungsten, Tantalum, and Molybdenum. (E) É. Ya. Zandberg, N. I. Ionov, and A. Ya. Tontegode. 10, 1164 (1966) [35, 1504 (1965)]

IONOV, N. I.
Thermal Dissociation of Sodium Chloride and Sodium Iodide Molecules on a Tungsten Surface. (E) N. I. Ionov and M. A. Mittsev. 10, 1436 (1966) [35, 1863 (1965)]

IONOV, N. I.
Study of the Chemisorption of Nitrogen on Polycrystalline Tungsten Filaments by the Flash Method. (E) Yu. K. Ustinov and N. I. Ionov. 10, 1607 (1966) [35, 2099 (1965)]

IONOV, N. I.
Investigation of the Chemisorption of Oxygen on Polycrystalline Tungsten by the Flash Method. (T/E) V. N. Ageev and N. I. Ionov. 10, 1614 (1966) [35, 2109 (1965)]

IVANIYA, S. P.
Temperature and Density Distribution in a High-Temperature Steady-State Arc. (T) S. G. Alikhanov and S. P. Ivaniya. 10, 433 (1965) [35, 557 (1965)]

IVANOV, R. D.
Possibility of Measuring the Breadth of the Domain Boundary in Ferromagnetics by Means of an Electron Mirror Microscope. (E) R. D. Ivanov. 10, 110 (1965) [35, 145 (1965)]

IVANOVSKII, G. F.
Sorption of Argon Ions by Titanium Films. (E) G. F. Ivanovskii and T. D. Radzhabov. 10, 1017 (1966) [35, 1312 (1965)]

IVANOVSKII, M. A.
The Motion of a Plasma Stream in a Toroidal Magnetic Field. (E) G. M. Batanov, M. A. Ivanovskii, and I. S. Shpigel'. 10, 196 (1965) [35, 242 (1965)]

IZMAILOV, S. V.
Theory of the Periodic System of Elements Under High Pressure. I. (T) S. V. Izmailov and G. A. Shul'man. 10, 1455 (1966) [35, 1889 (1965)]

KADANTSEV, V. N.
Singularities in Radiation Emitted by Point Dipoles Moving in Narrow Cavities in Magnetoactive Media. (T) K. A. Barsukov and V. N. Kadantsev. 10, 1241 (1966) [35, 1606 (1965)]

KADYMOV, A. Kh.
Pulsed Iron-Free Synchrotron. (E/T) E. A. Abramyan, I. E. Bender, G. I. Budker, A. Kh. Kadymov, A. A. Naumov, and V. S. Panasyuk. 10, 482 (1965) [35, 612 (1965)]

KADYSH, I. Ya.
Study of the Convection of Plasma Electrons by a Traveling Magnetic Wave. (E) R. A. Demirkhanov, I. Ya. Kadysh, I. S. Fursa, and Yu. S. Khodyrev. 10, 174 (1965) [35, 212 (1965)]

KAGAN, A. S.
On the Precision of Determining Fine-Structure Characteristics by the X-Ray Method. (T) A. S. Kagan and V.M. Snovidov: 10, 284 (1965) [35, 355 (1965)]

KAGAN, Yu. M.
Radial Dependence of the Electron Velocity Distribution Function in a Positive Column. (E/T) Yu. M. Kagan and V. M. Milenin. 10, 1470 (1966) [35, 1907 (1965)]

KAGAN, Yu. M.
Theory of a Spherical Probe for Intermediate and High Pressures. (T) Yu. M. Kagan and V. I. Perel'. 10, 1586 (1966) [35, 2069 (1965)]

KAGANSKII, M. G.
Toroidal Device for Adiabatic Plasma Compression. (E) V. E. Golant, M. G. Kaganskii, V. A. Ovsyannikov, and A. D. Piliya. 10, 1669 (1966) [35, 2176 (1965)]

KALMYKOV, A. A.
Instability Development in a Plasmoid Moving in a Longitudinal Magnetic Field. (E) A. A. Kalmykov, S. A. Trubchninov, and V. A. Naboka. 10, 137 (1965) [35, 169 (1965)]

KALMYKOV, A. A.
Performance of a Coaxial Plasma Source Generating Fast Particles. (E/T) A. D. Timofeev, V. G. Marinin, B. A. Shevchuk, and A. A. Kalmykov. 10, 662 (1965) [35, 858 (1965)]

KAMINSKII, D. L.
Optical Properties of the Magnets Focusing the Atomic Beam into the Resonator of a Hydrogen Generator. (T) D. L. Kaminskii. 10, 106 (1965) [35, 140 (1965)]

KAMYSHAN, V. V.
Experimental Investigation of the Fundamental-Mode Field Distribution in Open Resonators with Spherical Mirrors. (E) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 223 (1965) [35, 279 (1965)]

KAMYSHAN, V. V.
Instability of Confocal Systems. (E/T) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 1394 (1966) [35, 1806 (1965)]

KARMANOV, F. V.
Compensation of Perturbations of a Helical Magnetic Field. (E/T) F. V. Karmanov and V. K. Mel'nikov. 10, 1074 (1966) [35, 1385 (1965)]

KARNAUKHOV, I. M.
Mass-Spectrometer Study of a Low-Pressure Positive-Ion Source. (E) O. I. Ekhichev, G. N. Zinchenko, N. S. Zinchenko, I. M. Karnaukhov, and R. P. Slabospitskii. 10, 1461 (1966) [35, 1897 (1965)]

KARPOV, V. I.
Mass-Spectroscopic Investigation of the Operation of a Halogen Leak-Detector. (E) V. I. Karpov, L. E. Levina, and L. D. Murav'eva. 10, 1283 (1966) [35, 1662 (1965)]

KASTAL'SKII, A. A.
Excitation of Ultrasonic Oscillations in Germanium by Current Pulses. (Thermoacoustic Oscillations). (E/T) A. A. Grinberg, A. A. Kastal'skii, and S. M. Ryvkin. 10, 298 (1965) [35, 376 (1965)]

KAZACHOK, V. S.
The Electrodynamic Method of Slowing Down Molecules. (T) V. S. Kazachok. 10, 882 (1965) [35, 1145 (1965)]

KAZANSKII, G. S.
Controlling a Beam of Accelerated Particles in the Irradiation of Thin Targets in the Dubna Synchrophasotron. (E) G. S. Kazanskii and A. P. Tsarenkov. 10, 327 (1965) [35, 414 (1965)]

KAZANSKII, G. S.
Flux Stabilization of Particle Beams in the Synchrophasotron of the Joint Institute of Nuclear Research. (E) G. S. Kazanskii, A. I. Mikhailov, and A.P. Tsarenkov. 10, 490 (1965) [35, 623 (1965)]

KEL'MAN, V. M.
Solution of the Equations of Motion of Nonrelativistic Charged Particles in a Certain Type of Alternating Electromagnetic Field. (T) L. G. Glikman, V. M. Kel'man, and E. M. Yakushev. 10, 1532 (1966) [35, 1997 (1965)]

KERVALISHVILI, N. A.
Characteristics of a Low-Pressure Discharge in a Transverse Magnetic Field. (E/T) N. A. Kervalishvili and A. V. Zharinov. 10, 1682 (1966) [35, 2194 (1965)]

KEVANISHVILI, G. Sh.
Diffraction of Plane Waves by a Double Grating Consisting of Narrow Strips. (T/E) G. Sh. Kevanishvili and D. K. Kvavadze. 10, 1389 (1966) [35, 1799 (1965)]

KHALFIN, V. B.
Electron Energy Distribution in the Positive Column of a Discharge in a Mixture of Mercury and Inert Gases. (E) V. B. Khalfin. 10, 127 (1965) [35, 160 (1965)]

KHARCHENKO, I. F.
Investigation of a Linear Induction Accelerator. (E/T) E. I. Lutsenko, L. I. Bolotin, Ya. B. Fainberg, and I. F. Kharchenko. 10, 499 (1965) [35, 635 (1965)]

KHARCHENKO, I. F.
Formation of Plasma in the Development of a Beam Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, and I. F. Kharchenko. 10, 1064 (1966) [35, 1372 (1965)]

KHARCHENKO, I. F.
Time Characteristics of the Microwave Oscillations in the Development of a Beam-Plasma Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, L. I. Bolotin, and I. F. Kharchenko. 10, 1069 (1966) [35, 1378 (1965)]

KHARIN, G. V.
An Investigation of Electron Loss from Traps with Spatially Periodic Helical Magnetic Fields. (E) R. A. Demirkhanov, Yu. V. Kursanov, D. G. Baratov, and G. V. Kharin. 10, 968 (1966) [35, 1250 (1965)]

KHIZHNYAK, N. A.
Magnetic Moment of a Charged Particle Impinging on a Uniform Longitudinal Magnetic Field. (T) N. A. Khizhnyak. 10, 643 (1965) [35, 827 (1965)]

KHIZHNYAK, N. A.
Magnetic Moment of a Plasmoid Entering a Uniform Longitudinal Magnetic Field. (T) N. A. Khizhnyak. 10, 647 (1965) [35, 833 (1965)]

KHIZHNYAK, N. A.
Motion of a Plasmoid in the Magnetic Field of a Toroidal Solenoid. (T) N. A. Khizhnyak. 10, 655 (1965) [35, 847 (1965)]

KHIZHNYAK, N. A.
Nonlinear Oscillations of a Plasma Behind an Ionization Front. (T) P. M. Kolesnikov and N. A. Khizhnyak. 10, 1344 (1966) [35, 1736 (1965)]

KHODYREV, Yu. S.
Study of the Convection of Plasma Electrons by a Traveling Magnetic Wave. (E) R. A. Demirkhanov, I. Ya. Kadysh, I. S. Fursa, and Yu. S. Khodyrev. 10, 174 (1965) [35, 212 (1965)]

KHOZHAINOV, A. I.
Experimental Study of the Initial Region of a Square Magnetohydrodynamic Channel Taking Account of the Inhomogeneity of the Magnetic Field in the Longitudinal Direction. (E) A. I. Khozhainov. 10, 1213 (1966) [35, 1568 (1965)]

KIKIANI, B. I.
Ionization of Gases by Alkali Ions. (E) I. P. Flaks, B. I. Kikiani, and G. N. Ogurtsov. 10, 1590 (1966) [35, 2076 (1965)]

KISELEV, V. A.
Distribution of Current in a Coaxial Plasma Gun. (E) I. M. Zolototrubov, V. A. Kiselev, and Yu. M. Novikov. 10, 204 (1965) [35, 253 (1965)]

KITSENKO, A. B.
Cyclotron Excitation of Magnetosonic Waves by a Stream of Charged Particles. (T/E) V. V. Angeleiko and A. B. Kitsenko. 10, 365 (1965) [35, 470 (1965)]

KLYARFEL'D, B. N.
The Nature of the Positive Volt-Ampere Characteristics of a Low-Pressure Electric Discharge. (E) B. N. Klyarfel'd and L. G. Guseva. 10, 244 (1965) [35, 306 (1965)]

KNYAZEV, Yu. R.
Pulsed Heating of a High-Pressure Arc in Argon. I. (E) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 937 (1966) [35, 1210 (1965)]

KNYAZEV, Yu. R.
Pulsed Heating of a High-Pressure Arc in Argon. II. (E/T) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 943 (1966) [35, 1218 (1965)]

KNYAZYATOV, A. S.
The Production of an Intense Pulsed Beam of Accelerated Tritium Atoms. (E/T) A. S. Knyazyatov and V. V. Mal'tsev. 10, 805 (1965) [35, 1047 (1965)]

KOLESNIKOV, P. M.
Acceleration of Pulsation Plasmoids. (T) P. M. Kolesnikov. 10, 1219 (1966) [35, 1577 (1965)]

KOLESNIKOV, P. M.
Nonlinear Oscillations of a Plasma Behind an Ionization Front. (T) P. M. Kolesnikov and N. A. Khizhnyak. 10, 1344 (1966) [35, 1736 (1965)]

KOLOMOITSEV, V. S.
A Contribution to the Theory of the Electric Arc. (T) V. S. Kolomoitsev. 10, 1725 (1966) [35, 2249 (1965)]

KOLPAKOV, O. A.
Propagation of Low-Energy Electromagnetic Waves in a Structural Waveguide and the Radiation from a Charge Traversing Along Its Axis. (T) O. A. Kolpakov, V. I. Kotov, and Om-San-Kha. 10, 18 (1965) [35, 26 (1965)]

KOLPAKOV, O. A.
Radiation Due to Passage of a Magnetic Dipole Through a Cylindrical Cavity or a Waveguide with a Periodic Structure. (T) O. A. Kolpakov and V. I. Kotov. 10, 1649 (1966) [35, 2150 (1965)]

KONDRATENKO, A. N.
Damping of Waves Propagating with a Phase Velocity Higher than the Velocity of Light. (T) A. N. Kondratenko. 10, 739 (1965) [35, 961 (1965)]

KONDRATENKO, A. N.
Attenuation of Waves Propagating in a Bounded Plasma Across a Magnetic Field. (T) A. N. Kondratenko. 10, 781 (1965) [35, 1015 (1965)]

KONDRATENKO, A. N.
Kinetic Theory of Electromagnetic Waves in a Plasma Layer. (T) A. N. Kondratenko. 10, 1198 (1966) [35, 1546 (1965)]

KONDRATENKO, A. N.
Kinetic Theory of the Propagation of Electromagnetic Waves Across a Plasma Layer. I. (T) A. N. Kondratenko and V. I. Miroshnichenko. 10, 1652 (1966) [35, 2154 (1965)]

KONDRAT'EV, B. V.
Power Flow in Anisotropically-Loaded Helical Waveguides. (T) B. V. Kondrat'ev. 10, 1123 (1966) [35, 1447 (1965)]

KONDRAT'EV, I. G.
Application of the Lorentz Lemma to Calculation of the Radiation Fields from Given Sources in Unbounded Media. (T) I. G. Kondrat'ev and V. I. Talanov. 10, 444 (1965) [35, 571 (1965)]

KONENKO, O. R.
Measurement of Plasma Conductivity by a Radio-Frequency Method. (E/T) A. V. Akimov and O. R. Konenko. 10, 1126 (1966) [35, 1451 (1965)]

KONONOV, B. P.
Resonance Interaction of a Plasmoid with an Electromagnetic Wave in a Waveguide. (E) B. P. Kononov. 10, 33 (1965) [35, 47 (1965)]

KONONOV, B. P.
Acceleration of Plasma by an H_{11}-Type Electromagnetic Wave in a Circular Waveguide. (E) B. P. Kononov, K. A. Sarksyan, V. A. Silin, and L. É. Tsopp. 10, 36 (1965) [35, 51 (1965)]

KONONOV, B. P.
Acceleration of Plasma in Combined Constant and High-Frequency Electric Fields. (T) B. P. Kononov. 10, 1358 (1966) [35, 1755 (1965)]

KONSTANTINOVA, T. G.
Experimental Study of Plasma Acceleration Brought About by the Gradient of a UHF Field. (E) I. R. Gekker, T. G. Konstantinova, G. S. Luk'yanchikov, and K. F. Sergeichev. 10, 450 (1965) [35, 577 (1965)]

KOPYLOV, G. N.
Turbulent Flow of a Charged Liquid in a Plane Nonconducting Tube. (T) G. N. Kopylov. 10, 1041 (1966) [35, 1537 (1965)]

KORNILOV, E. A.
Formation of Plasma in the Development of a Beam Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, and I. F. Kharchenko. 10, 1064 (1966) [35, 1372 (1965)]

KORNILOV, E. A.
Time Characteristics of the Microwave Oscillations in the Development of a Beam-Plasma Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, L. I. Bolotin, and I. F. Kharchenko. 10, 1069 (1966) [35, 1378 (1965)]

KORSUNSKII, M. I.
Correction of Angular Aberrations in the Two-Sector Electrostatic Analyzer. (E) V. V. Zashkvara, M. I. Korsunskii, and O. S. Kosmachev. 10, 818 (1965) [35, 1063 (1965)]

KORSUNSKII, M. I.
Determination of Some Parameters of an Electron-Ion Oscillatory Discharge. (E) M. I. Korsunskii and É. N. Gorbenko. 10, 923 (1966) [35, 1193 (1965)]

KORSUNSKII, M. I.
Some Properties of an Oscillatory Electron-Ion Discharge. (E) M. I. Korsunskii and É. N. Gorbenko. 10, 981 (1966) [35, 1265 (1965)]

KOSMACHEV, O. S.
Correction of Angular Aberrations in the Two-Sector Electrostatic Analyzer. (E) V. V. Zashkvara, M. I. Korsunskii, and O. S. Kosmachev. 10, 818 (1965) [35, 1063 (1965)]

KOSOV, N. D.
Coefficients of Isobaric-Isothermal Diffusion of Certain Gases. (E) N. D. Kosov and L. I. Kuriapov. 10, 1623 (1966) [35, 2120 (1965)]

KOSSYI, I. A.
Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. I. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

KOSSYI, I. A.
Radial Charged Particle Flux in a Discharge Excited by a High-Frequency Traveling Wave (TE). (T/E) I. A. Kossyi. 10, 1678 (1966) [35, 2189 (1965)]

KOSTOMAROV, A. P.
Drift Waves Propagating Across an External Magnetic Field. (T) A. P. Kostomarov. 10, 1327 (1966) [35, 1713 (1965)]

KOTOUSOV, L. S.
Thermal Diffusion Effect. I. (E/T) L. S. Kotousov. 10, 1698 (1966) [35, 2215 (1965)]

KOTOUSOV, L. S.
Thermal Diffusion Effect. II. (E/T) L. S. Kotousov. 10, 1702 (1966) [35, 2221 (1965)]

KOTOV, V. I.
Propagation of Low-Energy Electromagnetic Waves in a Structural Waveguide and the Radiation from a Charge Traversing Along Its Axis. (T) O. A. Kolpakov, V. I. Kotov, and Om-San-Kha. 10, 18 (1965) [35, 26 (1965)]

KOTOV, V. I.
Investigation of Hybrid Waves in a Circular Waveguide Partially Filled with Dielectric. (T/E) V. A. Vagin and V. I. Kotov. 10, 987 (1966) [35, 1273 (1965)]

KOTOV, V. I.
Radiation Due to Passage of a Magnetic Dipole Through a Cylindrical Cavity or a Waveguide with a Periodic Structure. (T) O. A. Kolpakov and V. I. Kotov. 10, 1649 (1966) [35, 2150 (1965)]

KOVALENKO, A. N.
Coupled Annular Slot Antennas Mounted on a Prolate Spheroid. (T) D. A. Duplenkov and A. N. Kovalenko. 10, 1109 (1966) [35, 1428 (1965)]

KOVALENKO, V. A.
Supersonic Hydrogen Jet in Vacuum. (E) V. B. Yuferov, V. A. Kovalenko, E. I. Skibenko, and F. I. Busol. 10, 1177 (1966) [35, 1522 (1965)]

KOVPIK, O. F.
Formation of Plasma in the Development of a Beam Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, and I. F. Kharchenko. 10, 1064 (1966) [35, 1372 (1965)]

KOVPIK, O. F.
Time Characteristics of the Microwave Oscillations in the Development of a Beam-Plasma Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, L. I. Bolotin, and I. F. Kharchenko. 10, 1069 (1966) [35, 1378 (1965)]

KOVRIZHNYKH, L. M.
On the Nonlinear Theory of Electron Bunch Interaction in a Plasma with Transverse Waves. (T) L. M. Kovrizhnykh and V. N. Tsytovich. 10, 10 (1965) [35, 14 (1965)]

KOZLOV, G. I.
Determination of Collision Cross Sections of Electrons with Atoms and Molecules of Certain Gases by a Double-Beam Radio Probe Method. (E) G. I. Kozlov. 10, 690 (1965) [35, 895 (1965)]

KRAMSKOI, G. D.
Calculation of Field Intensity in the Traveling Wave Linear Accelerator. (T/E) L. A. Makhnenko, A. I. Zykov, and G. D. Kramskoi. 10, 384 (1965) [35, 496 (1965)]

KRAMSKOI, G. D.
Determination of the Equivalent Reflection Coefficient of a Diaphragmed Waveguide in a Linear Accelerator. (T/E) A. I. Zykov, L. A. Makhnenko, and G. D. Kramskoi. 10, 393 (1965) [35, 508 (1965)]

KRASOVITSKII, V. B.
Traveling Waves in a Nonlinear Electromagnetic Medium. (T) V. B. Krasovitskii and V. I. Kurilko. 10, 454 (1965) [35, 580 (1965)]

KRASOVSKII, A. A.
Thermal Fluctuations in Linear Passive Systems. (T) A. A. Krasovskii. 10, 1192 (1966) [35, 1537 (1965)]

KREINDEL', Yu. E.
Pulse Characteristics of Modified Penning Discharge Tubes. (E) Yu. E. Kreindel' and É. N. Fakhrutdinov. 10, 249 (1965) [35, 312 (1965)]

KREINDEL', Yu. E.
Ion-Current Distribution in Penning Discharge Tubes. (E) Yu. E. Kreindel'. 10, 252 (1965) [35, 315 (1965)]

KRINBERG, I. A.
On V. S. Kolomoitsev's Letter "A Contribution to the Theory of the Electric Arc." (T) I. A. Krinberg. 10, 1727 (1966) [35, 2251 (1965)]

KRINDACH, N. I.
Investigation of the High-Frequency Discharge in a Neon-Helium Laser. (E) N. I. Krindach, I. A. Silin-Bekchrin, L. N. Tunitskii, and E. M. Cherkasov. 10, 1297 (1966) [35, 1678 (1965)]

KRIVKO, N. I.
Superconducting Niobium-Gallium Alloys. (E) Z. A. Guts, N. I. Krivko, V. K. Morozova, T. A. Sidorova, and A. A. Fogel'. 10, 1295 (1966) [35, 1675 (1965)]

KRIVKO, N. I.
Measurements of Magnetic Field at the Surface of a Nb-Zr Superconductor by an Electron Paramagnetic Resonance Method. (E) N. I. Krivko. 10, 1468 (1966) [35, 1906 (1965)]

KRIZHANSKII, S. M.
Theory of the Volt-Ampere Characteristic of a High-Pressure Nonstationary Arc Column. (T) S. M. Krizhanskii. 10, 1450 (1966) [35, 1882 (1965)]

KRUPNIK, L. I.
Application of Fast Particle Beams to the Study of Plasmoids. (E) L. I. Krupnik, N. G. Shulika, and P. A. Demchenko. 10, 556 (1965) [35, 711 (1965)]

KRYLOV, N. A.
Effect of a Magnetic Field on the Parameters of a High-Frequency Discharge. (E) S. D. Vagner and N. A. Krylov. 10, 1105 (1966) [35, 1423 (1965)]

KUDRYAVTSEV, A. M.
Instability and Anamolous Diffusion in a Potassium Plasma. (E) N. S. Buchel'nikova, A. M. Kudryavtsev, and R. A. Salimov. 10, 53 (1965) [35, 72 (1965)]

KURDYUMOV, V. N.
Cerenkov Radiation from a Charge in a Cold Plasma. (T) V. N. Kurdyumov. 10, 1370 (1966) [35, 1771 (1965)]

KURILKO, V. I.
Traveling Waves in a Nonlinear Electromagnetic Medium. (T) V. B. Krasovitskii and V. I. Kurilko. 10, 454 (1965) [35, 580 (1965)]

KURLAPOV, L. I.
Coefficients of Isobaric-Isothermal Diffusion of Certain Gases. (E) N. D. Kosov and L. I. Kurlapov. 10, 1623 (1966) [35, 2120 (1965)]

KURSANOV, Yu. V.
An Investigation of Electron Loss from Traps with Spatially Periodic Helical Magnetic Fields. (E) R. A. Demirkhanov, Yu. V. Kursanov, D. G. Baratov, and G. V. Kharin. 10, 968 (1966) [35, 1250 (1965)]

KUSHNIR, R. M.
Resonance Charge Transfer in Zinc and Cadmium Vapor. (E) R. M. Kushnir, B. M. Palyukh, and L. S. Savchik. 10, 1695 (1966) [35, 2212 (1965)]

KUTS, P. S.
Investigation of Faraday UHF Devices Under Variable Magnetization Conditions. (T/E) I. A. Deryugin, V. L. Strizhevskii, and P. S. Kuts. 10, 424 (1965) [35, 546 (1965)]

KUZNETSKII, R. S.
Quality Factor of a Spherical Resonator. (T/E) R. S. Kuznetskii. 10, 362 (1965) [35, 465 (1965)]

KUZNETSKII, R. S.
Rotating Magnetic Field and Surface Current of a Multiphase System with Tapered Poles. (T) R. S. Kuznetskii. 10, 889 (1965) [35, 1154 (1965)]

KUZNETSOV, V. S.
Design of an Accelerating Tube with Inclined Electrodes. (T) V. S. Kuznetsov and R. P. Fidel'skaya. 10, 1537 (1966) [35, 2004 (1965)]

KUZNETSOV, Yu. K.
Instability in an Oscillating-Electron Discharge. I. Microwave Radiation. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, and I. Yu. Adamov. 10, 1082 (1966) [35, 1394 (1965)]

KUZNETSOV, Yu. K.
Instability in an Oscillating-Electron Discharge. II. Anomalous Diffusion of the Plasma. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, I. K. Nikol'skii, and I. Yu. Adamov. 10, 1088 (1966) [35, 1401 (1965)]

KVAVADZE, D. K.
Diffraction of Plane Waves by a Double Grating Consisting of Narrow Strips. (T/E) G. Sh. Kevanishvili and D. K. Kvavadze. 10, 1389 (1966) [35, 1799 (1965)]

LARIONOV, M. M.
The Anisotropy in the Electron Energy Distribution in the Alpha Setup. (E) B. V. Galaktionov, M. M. Larionov, and K. A. Podushnikova. 10, 140 (1965) [35, 172 (1965)]

LATS'KO, E. M.
Polarization of Plasma Moving in a Helical Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1232 (1966) [35, 1594 (1965)]

LATS'KO, E. M.
Polarization of Plasma Moving in a Toroidal Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1235 (1966) [35, 1598 (1965)]

LATS'KO, E. M.
Polarization of Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1238 (1966) [35, 1602 (1965)]

LEBEDEV, M. A.
The Effect of a Normal Magnetic Field Upon a Low-Voltage Arc Discharge in Cesium Vapors. (E) I. I. Bondarenko, Yu. K. Gus'kov, and M. A. Lebedev. 10, 586 (1965) [35, 751 (1965)]

LEBEDEV, S. Ya.
Electrical Breakdown Through a Gap in Glass in an Atmosphere of Cesium Vapor. (E) Yu. K. Gus'kov, S. Ya. Lebedev, and V. G. Rodionova. 10, 123 (1965) [35, 156 (1965)]

LEBEDEV, S. Ya.
Thermionic Converter Operation in the Presence of Krypton. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1318 (1966) [35, 1707 (1965)]

LEBEDEV, S. Ya.
Cesium Thermionic Converter Operation in the Presence of Xenon. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1320 (1966) [35, 1709 (1965)]

LEMBRA, Yu. Ya.
One Possibility of Calculating the Envelope of the Trajectory of Particles in Accelerators. (T) Yu. Ya. Lembra. 10, 447 (1965) [35, 574 (1965)]

LEONT'EV, N. I.
Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. I. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

LETOKHOV, V. S.
Diffraction Losses of an Open Resonator Formed by Mirrors with Absorbing Strips. (E) V. S. Letokhov. 10, 629 (1965) [35, 809 (1965)]

LETOKHOV, V. S.
Diffraction Synchronization of Lasers. (T) N. G. Basov, É. M. Belenov, and V. S. Letokhov. 10, 845 (1965) [35, 1098 (1965)]

LETOKHOV, V. S.
Theory of Coupled Optical Masers. (T) É. M. Belenov and V. S. Letokhov. 10, 1628 (1966) [35, 2126 (1965)]

LEVCHENKO, A. A.
Entry of Electrode Material into a Spark Discharge. (E/T) L. S. Palatnik and A. A. Levchenko. 10, 680 (1965) [35, 883 (1965)]

LEVIN, G. A.
Effect of Asymmetry of the Interaction Space on Steady-State Characteristics of a Cylindrical Magnetron. (E) G. A. Levin, I. L. Verbitskii, V. I. Vigdorchik, V. I. Maksimov, and M. V. Mil'cho. 10, 403 (1965) [35, 519 (1965)]

LEVINA, L. E.
Mass-Spectroscopic Investigation of the Operation of a Halogen Leak-Detector. (E) V. I. Karpov, L. E. Levina, and L. D. Murav'eva. 10, 1283 (1966) [35, 1662 (1965)]

LEVITSKII, S. M.
Diffusion Theory of a Beam-Generated Plasma. (T/E) S. M. Levitskii and I. P. Shashurin. 10, 915 (1966) [35, 1182 (1965)]

LIELAUSIS, O. A.
The Characteristics of the Transverse Magnetic Field Effect on Turbulent Flow of Liquid Metal at Different Reynolds Numbers. (E) G. G. Branover and O. A. Lielausis. 10, 191 (1965) [35, 235 (1965)]

LIPEROVSKII, V. A.
Oscillations of an Electron–Ion Plasma in a Strong Electric Field. (T) V. A. Liperovskii. 10, 736 (1965) [35, 958 (1965)]

LITVAK, A. G.
Distribution Functions of Plasma Electrons and Ions in a Weakly-Inhomogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 81 (1965) [35, 108 (1965)]

LITVAK, A. G.
Ohmic Heating of a Partly Ionized Plasma by a Homogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 135 (1965) [35, 168 (1965)]

LIVENTSEVA, I. F.
Electromagnetic Radiation from a Magnetized Plasma Traversed by an Electron Beam. (E) V. E. Golant, A. P. Zhilinskii, I. F. Liventseva, and I. E. Sakharov. 10, 1559 (1966) [35, 2034 (1965)]

LIVSHITS, L. D.
Effect of Pressure on the Plasticity of Metals. (E) L. D. Livshits, Yu. N. Ryabinin, and B. I. Beresnev. 10, 278 (1965) [35, 348 (1965)]

LOGACHEVA, V. D.
Excitation of Magnetosonic Waves by Moving Radiators. (T) V. P. Dokuchaev and V. D. Logacheva. 10, 619 (1965) [35, 794 (1965)]

LOLADZE, Ts. D.
Transformation of Waves at a Plasma–Vacuum Boundary. (T) Ts. D. Loladze. 10, 456 (1965) [35, 582 (1965)]

LOMINADZE, D. G.
Excitation of Magnetoacoustic Waves in Colliding Plasma Streams. (T) D. G. Lominadze and K. N. Stepanov. 10, 113 (1965) [35, 148 (1965)]

LOMINADZE, D. G.
Stability of Two Colliding Plasma Streams in a Magnetic Field. (T) D. G. Lominadze and K. N. Stepanov. 10, 169 (1965) [35, 205 (1965)]

LOMINADZE, D. G.
Excitation of Plasma Oscillations by a Flow of Oscillators. (T) D. G. Lominadze and K. N. Stepanov. 10, 347 (1965) [35, 441 (1965)]

LOMINADZE, D. G.
Excitation of Longitudinal Low-Frequency Plasma Oscillations by a Flow of Charged Particles with Anisotropic Distribution Function. (T) D. G. Lominadze and K. N. Stepanov. 10, 352 (1965) [35, 449 (1965)]

LOMINADZE, D. G.
Cherenkov Radiation of an Annular Current in a Brillouin Cloud. (T) D. G. Lominadze. 10, 441 (1965) [35, 568 (1965)]

LOMINADZE, D. G.
Nonlinear Theory of Low-Frequency Oscillations Excited in a Plasma by an Ion Beam. (T) D. G. Lominadze and V. I. Shevchenko. 10, 667 (1965) [35, 865 (1965)]

LOMINADZE, D. G.
Interaction of a Charged-Particle Beam with a Bounded Plasma. (T) N. P. Giorgadze and D. G. Lominadze. 10, 1349 (1966) [35, 1743 (1965)]

LOMINO, N. S.
The Possibility of Instability Formation in a Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 119 (1965) [35, 154 (1965)]

LOMINO, N. S.
Study of Some Characteristics of Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 640 (1965) [35, 823 (1965)]

LOZHNIKOV, A. A.
Use of Laser Radiation to Create a Strong Electron Source. (E) O. V. Bogdankevich, V. Yu. Sudzilovskii, and A. A. Lozhnikov. 10, 1573 (1966) [35, 2052 (1965)]

LOZOVAYA, E. A.
Formation of a Quasineutral Flux of Accelerated Ions in the Plasma Leaving an Ion Source. (E/T) M. D. Gabovich, L. I. Ramanyuk, and E. A. Lozovaya. 10, 70 (1965) [35, 94 (1965)]

LOZOVSKII, S. N.
Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. I. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

LUK'YANCHIKOV, G. S.
Experimental Study of Plasma Acceleration Brought About by the Gradient of a UHF Field. (E) I. R. Gekker, T. G. Konstantinova, G. S. Luk'yanchikov, and K. F. Sergeichev. 10, 450 (1965) [35, 577 (1965)]

LUK'YANCHIKOV, G. S.
Study of Plasma Motion in a Radiation Accelerator by uhf Methods. (E) I. R. Gekker and G. S. Luk'yanchikov. 10, 1026 (1966) [35, 1323 (1965)]

LUNEV, V. M.
Adsorption Properties of Type A Zeolites at Liquid-Nitrogen Temperatures. (E) V. M. Lunev and A. A. Romanov. 10, 1287 (1966) [35, 1666 (1965)]

LUN'KIN, Yu. P.
Flow of a Supersonic Stream of Nonequilibrium-Dissociating Air Around Obtuse Bodies. (E) V. K. Dushin and Yu. P. Lun'kin. 10, 1133 (1966) [35, 1461 (1965)]

LUTSENKO, E. I.
Investigation of a Linear Induction Accelerator. (E/T) E. I. Lutsenko, L. I. Bolotin, Ya. B. Fainberg, and I. F. Kharchenko. 10, 499 (1965) [35, 635 (1965)]

LYUBARSKII, G. Ya.
Asymptotic Solution of a Diffusion Problem and Application to the Theory of Storage Rings. (T) A. S. Bakai, G. Ya. Lyubarskii, and V. V. Rozhkov. 10, 1183 (1966) [35, 1525 (1965)]

MAKARENKO, G. N.
Thermionic Emission of CeC_2. (E) Yu. B. Paderno, V. S. Fomenko, I. A. Podchernyaeva, and G. N. Makarenko. 10, 1434 (1966) [35, 1860 (1965)]

MAKAROV, Yu. V.
Study of the Luminescence Front Structure in Electromagnetic Shock Tubes. (E) Yu. V. Makarov and A. M. Maksimov. 10, 183 (1965) [35, 223 (1965)]

MAKAROV, Yu. V.
Investigation of the Structure of the Shock Waves in an Electromagnetic Shock Tube. (E) Yu. V. Makarov and A. M. Maksimov. 10, 510 (1965) [35, 650 (1965)]

MAKAROV, Yu. V.
Spectroscopic Studies in an Electromagnetic Shock Tube. (E) Y Yu. V. Makarov and A. M. Maksimov. 10, 517 (1965) [35, 658 (1965)]

MAKHNENKO, L. A.
Calculation of the Phase Velocity of the Wave in the Diaphragmed Waveguide of a Linear Accelerator. (T/E) A. I. Zykov and L. A. Makhnenko. 10, 379 (1965) [35, 489 (1965)]

MAKHNENKO, L. A.
Calculation of Field Intensity in the Traveling Wave Linear Accelerator. (T/E) L. A. Makhnenko, A. I. Zykov, and G. D. Kramskoi. 10, 384 (1965) [35, 496 (1965)]

MAKHNENKO, L. A.
Calculation of the Group Velocity of the Wave and the Damping in the Diaphragmed Waveguide of a Linear Accelerator. (T/E) A. I. Zykov and L. A. Makhnenko. 10, 389 (1965) [35, 502 (1965)]

MAKHNENKO, L. A.
Determination of the Equivalent Reflection Coefficient of a Diaphragmed Waveguide in a Linear Accelerator. (T/E) A. I. Zykov, L. A. Makhnenko, and G. D. Kramskoi. 10, 393 (1965) [35, 508 (1965)]

MAKHNENKO, L. A.
High-Frequence Focusing in Linear Accelerators. (T/E) L. A. Makhnenko, V. I. Pakhomov, and K. N. Stepanov. 10, 486 (1965) [35, 618 (1965)]

MAKSIMOV, A. M.
Study of the Luminescence Front Structure in Electromagnetic Shock Tubes. (E) Yu. V. Makarov and A. M. Maksimov. 10, 183 (1965) [35, 223 (1965)]

MAKSIMOV, A. M.
Investigation of the Structure of the Shock Waves in an Electromagnetic Shock Tube. (E) Yu. V. Makarov and A. M. Maksimov. 10, 510 (1965) [35, 650 (1965)]

MAKSIMOV, A. M.
Spectroscopic Studies in an Electromagnetic Shock Tube. (E) Y Yu. V. Makarov and A. M. Maksimov. 10, 517 (1965) [35, 658 (1965)]

MAKSIMOV, V. I.
Effect of Asymmetry of the Interaction Space on Steady-State Characteristics of a Cylindrical Magnetron. (E) G. A. Levin, I. L. Verbitskii, V. I. Vigdorchik, V. I. Maksimov, and M. V. Mil'cho. 10, 403 (1965) [35, 519 (1965)]

MALKIN, O. A.
Investigation of Cathode Spots in a Pulsed Discharge Between Parallel Electrodes. (E) R. Basharov, E. N. Gavrilovskaya, O. A. Malkin, and E. S. Trekhov. 10, 1428 (1966) [35, 1853 (1965)]

MALOV, A. F.
Nonlinear Study of Spatial Focusing in Magnetic Focusing Systems with r^{-i} Fields. (T) A. F. Malov, V. A. Suzdalev, and E. P. Fedoseev. 10, 705 (1965) [35, 914 (1965)]

MALOV, A. F.
Aberration and Displacement of a Beam by a Fringe Field without Transverse Variation in Magnetic Prisms. (T) A. F. Malov. 10, 1249 (1966) [35, 1617 (1965)]

MAL'TSEV, V. V.
The Production of an Intense Pulsed Beam of Accelerated Tritium Atoms. (E/T) A. S. Knyazyatov and V. V. Mal'tsev. 10, 805 (1965) [35, 1047 (1965)]

MALYSHEV, G. M.
Plasma Diagnostics by Light Scattering on Electrons. (R) G. M. Malyshev. 10, 1633 (1966) [35, 2129 (1965)]

MANUILOV, V. G.
Calculation of Superconducting Solenoid Characteristics. (T/E) V. G. Manuilov. 10, 828 (1965) [35, 1077 (1965)]

MARININ, V. G.
Performance of a Coaxial Plasma Source Generating Fast Particles. (E/T) A. D. Timofeev, V. G. Marinin, B. A. Shevchuk, and A. A. Kalmykov. 10, 662 (1965) [35, 858 (1965)]

MARININ, V. G.
Injection of Charged Particles into a Mirror System. (T/E) B. S. Akshanov, V. G. Marinin, A. I. Strel'tsov, and K. D. Sinel'nikov. 10, 1710 (1966) [35, 2232 (1965)]

MARTSINOVSKII, A. M.
On the Most Efficient Regimes for Operation of a Therminoic Converter. (T/E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, and V. G. Yur'ev. 10, 895 (1965) [35, 1160 (1965)]

MARTSINOVSKII, A. M.
Volt-Ampere Characteristics of a Thermionic Converter. (E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, B. I. Tsirkel', and V. G. Yur'ev. 10, 1575 (1966) [35, 2054 (1965)]

MASHKOVA, E. S.
The Anisotropy in the Ion-Electron Emission Coefficient of a Single Crystal of Copper. (E) E. S. Mashkova and V. A. Molchanov. 10, 449 (1965) [35, 575 (1965)]

MASHKOVA, E. S.
Angular Regularities in the Scattering of Inert Gas Ions Through Small Angles. (E) E. S. Mashkova and V. A. Molchanov. 10, 1024 (1966) [35, 1321 (1965)]

MATERIKOVA, L. B.
Excitation of Dielectric Bodies of Revolution. (T) E. N. Vasil'ev and L. B. Materikova. 10, 1401 (1966) [35, 1817 (1965)]

MATORA, I. M.
Figures of Equilibrium of Toroidal Current Surfaces in a Gas in the Presence of Surface Tension. (T) P. Kh. Byrnev and I. M. Matora. 10, 1363 (1966) [35, 1762 (1965)]

MAZALOV, Yu. P.
Motion of Plasmoids in Field-Free Space. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 505 (1965) [35, 643 (1965)]

MAZALOV, Yu. P.
Motion of Plasmoids in a Uniform Axially-Symmetric Magnetic Field. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 1092 (1966) [35, 1405 (1965)]

MELIKIYA, M. G.
On the Theory of the Low-Voltage Arc in Cesium. II. (T) B. Ya. Moizhes, F. G. Baksht, and M. G. Melikiya. 10, 1252 (1966) [35, 1621 (1965)]

MEL'NIKOV, V. K.
Compensation of Perturbations of a Helical Magnetic Field. (E/T) F. V. Karmanov and V. K. Mel'nikov. 10, 1074 (1966) [35, 1385 (1965)]

MEOS, V. A.
The Klystron Method of Generating Nano- and Subnanosecond Video-pulses. I. (T) A. D. Sushkov and V. A. Meos. 10, 565 (1965) [35, 723 (1965)]

MEOS, V. A.
The Klystron Method of Generating Nano- and Subnanosecond Video-pulses. II. (E) A. D. Sushkov and V. A. Meos. 10, 576 (1965) [35, 739 (1965)]

MERGELYAN, O. S.
Radiation of a Point Charge in a Waveguide in the Presence of an External Magnetic Field. (E) É. D. Gazazyan and O. S. Mergelyan. 10, 125 (1965) [35, 158 (1965)]

MERGELYAN, O. S.
Interaction of Charged Particles and a Gyrotropic Ferrite. (T/E) É. D. Gazazyan and O. S. Mergelyan. 10, 419 (1965) [35, 539 (1965)]

MESHCHERYAKOV, G. M.
Effect of Pre-Ionization of a Gas on Energy Redistribution in a Spark Discharge. (E/T) G. M. Meshcheryakov. 10, 957 (1966) [35, 1236 (1965)]

MESHKOV, I. N.
Focusing of a High-Intensity Electron Beam in an Accelerating Tube. (T) I. N. Meshkov and B. V. Chirikov. 10, 1688 (1966) [35, 2202 (1965)]

MESYATS, G. A.
Spark Pulse Peaking Devices with Low Sensitivity to Pulse Height. (E) G. A. Mesyats. 10, 400 (1965) [35, 516 (1965)]

MESYATS, G. A.
Deformation of Intense Waves Traversing a Ferrite Discontinuity in a Transmission Line. (E) G. A. Mesyats and R. B. Baksht. 10, 685 (1965) [35, 889 (1965)]

MESYATS, G. A.
Nanosecond Time Development of a Pulsed Discharge at a Dielectric-Vacuum Interface. (E) S. P. Bugaev and G. A. Mesyats. 10, 930 (1966) [35, 1202 (1965)]

MESYATS, G. A.
Ferrite Switch for Intense Narrow Video Pulses. (E) G. A. Mesyats. 10, 1302 (1966) [35, 1685 (1965)]

MIKHAILOV, A. I.
Flux Stabilization of Particle Beams in the Synchrophasotron of the Joint Institute of Nuclear Research. (E) G. S. Kazanskii, A. I. Mikhailov, and A. P. Tsarenkov. 10, 490 (1965) [35, 623 (1965)]

MIKHAILOVA, M. S.
Concerning the Structure of Asymmetric Toroidal Magnetic Fields. (T) M. I. Graev, M. S. Mikhailova, and A. I. Morozov. 10, 920 (1966) [35, 1189 (1965)]

MIKHAILOVSKII, A. B.
Stability of a Spatially Inhomogeneous Current in a Plasma. I. Low-Frequency Waves. (T) A. B. Mikhailovskii. 10, 1490 (1966) [35, 1933 (1965)]

MIKHAILOVSKII, A. B.
Stability of a Spatially Inhomogeneous Current in a Plasma. II. Waves Whose Frequency is Above the Ion Cyclotron Frequency. (T) A. B. Mikhailovskii. 10, 1498 (1966) [35, 1945 (1965)]

MIKHAILOVSKII, A. B.
Stability of an Ion Beam Injected into a Plasma Across a Magnetic Field. (T) A. B. Mikhailovskii and É. A. Pashitskii. 10, 1507 (1966) [35, 1960 (1965)]

MIKHAILOVSKII, A. B.
Instabilities of Electron Waves in Inhomogeneous Plasma Streams. (T/E) A. B. Mikhailovskii and A. A. Rukhadze. 10, 1644 (1966) [35, 2143 (1965)]

MIL'CHO, M. V.
Effect of Asymmetry of the Interaction Space on Steady-State Characteristics of a Cylindrical Magnetron. (E) G. A. Levin, I. L. Verbitskii, V. I. Vigdorchik, V. I. Maksimov, and M. V. Mil'cho. 10, 403 (1965) [35, 519 (1965)]

MILENIN, V. M.
Radial Dependence of the Electron Velocity Distribution Function in a Positive Column. (E/T) Yu. M. Kagan and V. M. Milenin. 10, 1470 (1966) [35, 1907 (1965)]

MINENKO, L. I.
Investigation of an Electron Beam from an Annular Gun. (E/T) L. I. Minenko and G.P. Fomenko. 10, 551 (1965) [35, 705 (1965)]

MIN'KO, L. Ya.
Production and Investigation of Shock Waves and Supersonic Plasma Streams in an Electric Shock Tube. (E) L. I. Grechikhin and L. Ya. Min'ko. 10, 1128 (1966) [35, 1454 (1965)]

MIROSHNICHENKO, V. I.
Kinetic Theory of the Propagation of Electromagnetic Waves Across a Plasma Layer. I. (T) A. N. Kondratenko and V. I. Miroshnichenko. 10, 1652 (1966) [35, 2154 (1965)]

MITIN, R. V.
A High-Pressure Electrodeless Discharge. I. (E) R. V. Mitin and K. K. Pryadkin. 10, 933 (1966) [35, 1205 (1965)]

MITIN, R. V.
Pulsed Heating of a High-Pressure Arc in Argon. I. (E) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 937 (1966) [35, 1210 (1965)]

MITIN, R. V.
Pulsed Heating of a High-Pressure Arc in Argon. II. (E/T) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 943 (1966) [35, 1218 (1965)]

MITINA, N. I.
Investigation of a θ-Pinch Plasma with an Azimuthal Magnetic Field. (E) Ya. F. Volkov, V. G. Dyamlov, and N. I. Mitina. 10, 797 (1965) [35, 1039 (1965)]

MITSUK, V. E.
Ruby Laser Interferometric Measurement of Electron Concentration in a Plasma. (E) V. E. Mitsuk, V. I. Savoskin, and V. A. Chernikov. 10, 891 (1965) [35, 1156 (1965)]

MITTSEV, M. A.
Thermal Dissociation of Sodium Chloride and Sodium Iodide Molecules on a Tungsten Surface. (E) N. I. Ionov and M. A. Mittsev. 10, 1436 (1966) [35, 1863 (1965)]

MITTSEV, M. A.
Simultaneous Ionization of Lithium Fluoride Molecules and Calcium, Neodymium, and Indium Atoms on a Tungsten Surface. (E) M. A. Mittsev. 10, 1621 (1966) [35, 2117 (1965)]

MOIZHES, B. Ya.
The Theory of the Low Voltage Arc in Cesium. (T) F. G. Baksht and B. Ya. Moizhes. 10, 214 (1965) [35, 266 (1965)]

MOIZHES, B. Ya.
On the Theory of the Low-Voltage Arc in Cesium. II. (T) B. Ya. Moizhes, F. G. Baksht, and M. G. Melikiya. 10, 1252 (1966) [36, 1621 (1965)]

MOLCHANOV, V. A.
The Anisotropy in the Ion-Electron Emission Coefficient of a Single Crystal of Copper. (E) E. S. Mashkova and V. A. Molchanov. 10, 449 (1965) [35, 575 (1965)]

MOLCHANOV, V. A.
Dissociation of Molecular Ions Resulting from the Interaction with Surfaces of Solids. (E) V. A. Molchanov and V. Soshka. 10, 741 (1965) [35, 963 (1965)]

MOLCHANOV, V. A.
Angular Regularities in the Scattering of Inert Gas Ions Through Small Angles. (E) E. S. Mashkova and V. A. Molchanov. 10, 1024 (1966) [36, 1321 (1965)]

MOROZOV, A. I.
Concerning the Structure of Asymmetric Toroidal Magnetic Fields. (T) M. I. Graev, M. S. Mikhailova, and A. I. Morozov. 10, 920 (1966) [35, 1189 (1965)]

MOROZOVA, V. K.
Superconducting Niobium-Gallium Alloys. (E) Z. A. Guts, N. I. Krivko, V. K. Morozova, T. A. Sidorova, and A. A. Fogel', 10, 1295 (1966) [35, 1675 (1965)]

MOSKALEV, B. I.
Striations in a Hollow Cathode Plasma. (E) B. I. Moskalev. 10, 1095 (1966) [35, 1408 (1965)]

MOSKALEV, V. A.
The Torotron—An Induction Electron Accelerator. (E/T) V. A. Moskalev. 10, 496 (1965) [35, 630 (1965)]

MURATOV, V. I.
Interaction Between High-Frequency and Ion Acoustic Waves in a Plasma. (E) V. D. Fedorchenko, V. I. Muratov, and B. N. Rutkevich. 10, 1549 (1966) [35, 2021 (1965)]

MURAV'EVA, L. D.
Mass-Spectroscopic Investigation of the Operation of a Halogen Leak-Detector. (E) V. I. Karpov, L. E. Levina, and L. D. Murav'eva. 10, 1283 (1966) [35, 1662 (1965)]

MYASNIKOV, L. L.
A Study of the Reflection of the Atomic Beams of Potassium Rubidium, and Cesium from a Quartz Plate. (E) L. L. Myasnikov, L. D. Raigorodskii, and B. A. Finagin. 10, 421 (1965) [35, 542 (1965)]

MYAZDRIKOV, O. A.
Experimental Investigation of Mechanical Excitation of Phosphorus Suspensions in Solid Dielectrics. (E) O. A. Myazdrikov, O. S. Nikolaev, B. N. Pustoshkin, and V. M. Trofimov. 10, 1022 (1966) [35, 1319 (1965)]

NABOKA, V. A.
Instability Development in a Plasmoid Moving in a Longitudinal Magnetic Field. (E) A. A. Kalmykov, S. A. Trubchninov, and V. A. Naboka. 10, 137 (1965) [35, 169 (1965)]

NAGAEV, É. L.
Non-Maxwellian Gas Diode. (T) É. L. Nagaev. 10, 1261 (1966) [35, 1634 (1965)]

NASLEDOV, D. N.
Hall-Effect Transducers Using n-Type Gallium Arsenide. (E) N. V. Zotova, D. N. Nasledov, and O. M. Sreseli. 10, 1292 (1966) [35, 1672 (1965)]

NAUMOV, A. A.
A Betatron with Spiral Electron Storage. (E/T) E. A. Abramyan, G. I. Budker, G. B. Glagolev, and A. A. Naumov. 10, 477 (1965) [35, 605 (1965)]

NAUMOV, A. A.
Pulsed Iron-Free Synchrotron. (E/T) E. A. Abramyan, I. E. Bender, G. I. Budker, A. Kh. Kadymov, A. A. Naumov, and V. S. Panasyuk. 10, 482 (1965) [35, 612 (1965)]

NIKOLAEV, O. S.
Experimental Investigation of Mechanical Excitation of Phosphorus Suspensions in Solid Dielectrics. (E) O. A. Myazdrikov, O. S. Nikolaev, B. N. Pustoshkin, and V. M. Trofimov. 10, 1022 (1966) [35, 1319 (1965)]

NIKOLAEVA, V. A.
Calculation of the Efficiency of a μ-Meson Channel. (T) N. K. Abrosimov, V. A. Nikolaeva, and S. G. Sherman. 10, 1723 (1966) [35, 2248 (1965)]

NIKOL'SKII, I. K.
Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]

NIKOL'SKII, I. K.
Instability in an Oscillating-Electron Discharge. II. Anomalous Diffusion of the Plasma. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, I. K. Nikol'skii, and I. Yu. Adamov. 10, 1088 (1966) [35, 1401 (1965)]

NOVIKOV, Yu. M.
Distribution of Current in a Coaxial Plasma Gun. (E) I. M. Zolototrubov, V. A. Kiselev, and Yu. M. Novikov. 10, 204 (1965) [35, 253 (1965)]

OGURTSOV, G. N.
Ionization of Gases by Alkali Ions. (E) I. P. Flaks, B. I. Kikiani, and G. N. Ogurtsov. 10, 1590 (1966) [35, 2076 (1965)]

OM-SAN-KHA
Propagation of Low-Energy Electromagnetic Waves in a Structural Waveguide and the Radiation from a Charge Traversing Along Its Axis. (T) O. A. Kolpakov, V. I. Kotov, and Om-San-Kha. 10, 18 (1965) [35, 26 (1965)]

ONISHCHENKO, I. N.
Polarization of Plasma Moving in a Curved Magnetic Field. (E) V. S. Voitsenya, A. G. Gorbanyuk, I. N. Onishchenko, V. V. Shkoda, and B. G. Safronov. 10, 1032 (1966) [35, 1330 (1965)]

ORLOV, B. I.
Development of a Spark Discharge. I. (T/E) S. I. Andreev and B. I. Orlov. 10, 1097 (1966) [35, 1411 (1965)]

OSADIN, B. A.
Energy Release in a High-Current Vacuum Discharge. (E) B. A. Osadin. 10, 952 (1966) [35, 1230 (1965)]

OSADIN, B. A.
Plasmoid Formation in Pulsed Accelerators. (E) B. A. Osadin. 10, 1029 (1966) [35, 1327 (1965)]

OSTROUMOV, V. I.
Combined Use of Nuclear Emulsions and Bubble Chambers. (E) V. I. Ostroumov and M. V. Stabnikov. 10, 1706 (1966) [35, 2227 (1965)]

OSTROVSKII, E. K.
Producing Short Electron Bunches in the Linear Accelerator. (T) E. K. Ostrovskii. 10, 232 (1965) [35, 290 (1965)]

OVCHINNIKOV, S. S.
A Study of the Properties of Plasma in Crossed Electric and Magnetic Fields. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, and V. T. Tolok. 10, 560 (1965) [35, 717 (1965)]

OVCHINNIKOV, S. S.
High-Frequency Method for Producing a Dense Plasma in a Metallic Chamber. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, O. S. Pavlichenko, and V. T. Tolok. 10, 1675 (1966) [35, 2185 (1965)]

OVSYANNIKOV, V. A.
Toroidal Device for Adiabatic Plasma Compression. (E) V. E. Golant, M. G. Kaganskii, V. A. Ovsyannikov, and A. D. Piliya. 10, 1669 (1966) [35, 2176 (1965)]

OVSYANNIKOVA, L. P.
Third-Order Aberration of the Width of a Line Image in a Combined Quadrupole Lens. (T) L. P. Ovsyannikova and S. Ya. Yavor. 10, 723 (1965) [35, 940 (1965)]

PADALKA, V. G.
The Possibility of Instability Formation in a Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 119 (1965) [35, 154 (1965)]

PADALKA, V. G.
Study of Some Characteristics of Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 640 (1965) [35, 823 (1965)]

PADERNO, Yu. B.
Thermionic Emission of CeC_2. (E) Yu. B. Paderno, V. S. Fomenko, I. A. Podchernyaeva, and G. N. Makarenko. 10, 1434 (1966) [35, 1860 (1965)]

PAKHOMOV, V. I.
High-Frequence Focusing in Linear Accelerators. (T/E) L. A. Makhnenko, V. I. Pakhomov, and K. N. Stepanov. 10, 486 (1965) [35, 618 (1965)]

PALATNIK, L. S.
Entry of Electrode Material into a Spark Discharge. (E/T) L. S. Palatnik and A. A. Levchenko. 10, 680 (1965) [35, 883 (1965)]

PALEEV, V. I.
Intrinsic Thermionic Emission of Lanthanum Hexaboride and Surface Ionization of Cesium Atoms on Lanthanum Hexaboride. (E) É. Ya. Zandberg and V. I. Paleev. 10, 1014 (1966) [34, 1308 (1965)]

PALEEV, V. I.
Surface Ionization on Silicon. (T/E) É. Ya. Zandberg and V. I. Paleev. 10, 1602 (1966) [35, 2092 (1965)]

PALYUKH, B. M.
Resonance Charge Transfer in Zinc and Cadmium Vapor. (E) R. M. Kushnir, B. M. Palyukh, and L. S. Savchik. 10, 1695 (1966) [35, 2212 (1965)]

PANASYUK, V. S.
Pulsed Iron-Free Synchrotron. (E/T) E. A. Abramyan, I. E. Bender, G. I. Budker, A. Kh. Kadymov, A. A. Naumov, and V. S. Panasyuk. 10, 482 (1965) [35, 612 (1965)]

PASHCHENKO, V. P.
Effect of the Plasma Density Near the Electrodes on Conductivity in a Transverse Magnetic Field. (E/T) V. P. Pashchenko, I. P. Stakhanov, and A. S. Stepanov. 10, 132 (1965) [35, 165 (1965)]

PASHITSKII, É. A.
Stability of an Ion Beam Injected into a Plasma Across a Magnetic Field. (T) A. B. Mikhailovskii and É. A. Pashitskii. 10, 1507 (1966) [35, 1960 (1965)]

PATARAYA, A. D.
The Structure of Weak Shock Waves Including the Larmor Radius of the Ion. (T) A. D. Pataraya. 10, 165 (1965) [35, 200 (1965)]

PAVLICHENKO, O. S.
Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]

PAVLICHENKO, O. S.
Instability in an Oscillating-Electron Discharge. I. Microwave Radiation. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, and I. Yu. Adamov. 10, 1082 (1966) [35, 1394 (1965)]

PAVLICHENKO, O. S.
Instability in an Oscillating-Electron Discharge. II. Anomalous Diffusion of the Plasma. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, I. K. Nikol'skii, and I. Yu. Adamov. 10, 1088 (1966) [35, 1401 (1965)]

PAVLICHENKO, O. S.
High-Frequency Method for Producing a Dense Plasma in a Metallic Chamber. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, O. S. Pavlichenko, and V. T. Tolok. 10, 1675 (1966) [35, 2185 (1965)]

PAVLOV, S. M.
Radial Distribution of Electrical Conductivity in an Ionized Gas Jet. (T/E) S. M. Pavlov and S. A. Shevchenko. 10, 978 (1966) [35, 1262 (1965)]

PEREL', V. I.
Theory of a Spherical Probe for Intermediate and High Pressures. (T) Yu. M. Kagan and V. I. Perel'. 10, 1586 (1966) [35, 2069 (1965)]

PETELIN, M. I.
Distribution Functions of Plasma Electrons and Ions in a Weakly-Inhomogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 81 (1965) [35, 108 (1965)]

PETELIN, M. I.
Ohmic Heating of a Partly Ionized Plasma by a Homogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 135 (1965) [35, 168 (1965)]

PETRENKO, V. I.
Pulsed Heating of a High-Pressure Arc in Argon. I. (E) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 937 (1966) [35, 1210 (1965)]

PETRENKO, V. I.
Pulsed Heating of a High-Pressure Arc in Argon. II. (E/T) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 943 (1966) [35, 1218 (1965)]

PIKUS, G. E.
On the Most Efficient Regimes for Operation of a Therminoic Converter. (T/E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, and V. G. Yur'ev. 10, 895 (1965) [35, 1160 (1965)]

PIKUS, G. E.
Volt-Ampere Characteristics of a Thermionic Converter. (E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, B. I. Tsirkel', and V. G. Yur'ev. 10, 1575 (1966) [35, 2054 (1965)]

PILIYA, A. D.
Toroidal Device for Adiabatic Plasma Compression. (E) V. E. Golant, M. G. Kaganskii, V. A. Ovsyannikov, and A. D. Piliya. 10, 1669 (1966) [35, 2176 (1965)]

PISTRYAK, V. M.
Motion of Plasmoids in Field-Free Space. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 505 (1965) [35, 643 (1965)]

PISTRYAK, V. M.
Motion of Plasmoids in a Uniform Axially-Symmetric Magnetic Field. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 1092 (1966) [35, 1405 (1965)]

PLYUTTO, A. A.
Emission Properties of the Plasma of Vacuum Sparks. I. Ions Beams. (E) K. V. Suladze and A. A. Plyutto. 10, 1006 (1966) [35, 1298 (1965)]

PODCHERNYAEVA, I. A.
Thermionic Emission of CeC_2. (E) Yu. B. Paderno, V. S. Fomenko, I. A. Podchernyaeva, and G. N. Makarenko. 10, 1434 (1966) [35, 1860 (1965)]

PODUSHNIKOVA, K. A.
The Anisotropy in the Electron Energy Distribution in the Alpha Setup. (E) B. V. Galaktionov, M. M. Larionov, and K. A. Podushnikova. 10, 140 (1965) [35, 172 (1965)]

POLTORATSKII, É. A.
Coherent Radiation from Gallium-Arsenide Luminescent Diodes with a Triangular Resonator. (E) É. A. Poltoratskii, V. M. Stuchebnikov, and A. É. Yunovich. 10, 1173 (1966) [35, 1516 (1965)]

POPOV, G. Ya.
Approximate Method of Solving the Integral Equation for the Diffraction of Electromagnetic Waves by a Band of Finite Width. (T) G. Ya. Popov. 10, 305 (1965) [35, 381 (1965)]

POPOV, P. G.
Effect of a Longitudinal High-Frequency Current on the Stability of a Quasiconstant String Discharge. (E) I. M. Roife, P. G. Popov, and S. P. Yakovlev. 10, 208 (1965) [35, 259 (1965)]

POPRYADUKHIN, A. P.
Plasma Equilibrium in Magnetic Traps. (T) A. P. Popryadukhin. 10, 714 (1965) [35, 927 (1965)]

POPRYADUKHIN, A. P.
Magnetic Surfaces of a Stellarator with an $l = 2$ Winding. (E) M. S. Berezhetskii, S. E. Grebenshchikov, A. P. Popryadukhin, and I. S. Shpigel'. 10, 1662 (1966) [35, 2167 (1965)]

POTEKHINA, N. D.
Surface Ionization as Affected by Migration of Adatoms Along an Irregular Surface. (T) N. D. Potekhina. 10, 254 (1965) [35, 317 (1965)]

POTEKHINA, N. D.
Surface Ionization of LiCl on Rhenium. (T) N. D. Potekhina. 10, 1280 (1966) [35, 1658 (1965)]

POTOKIN, V. S.
The Bridge Stage of Electrode Erosion in Switching 1000–5000-A Currents in Vacuum. (E/T) V. S. Potokin, V. I. Rakhovskii, and V. N. Tikhonov. 10, 1424 (1966) [35, 1848 (1965)]

PRYADKIN, K. K.
A High-Pressure Electrodeless Discharge. I. (E) R. V. Mitin and K. K. Pryadkin. 10, 933 (1966) [35, 1205 (1965)]

PTITSYN, G. V.
Positive Surface Ionization of Potassium on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Ptitsyn. 10, 410 (1965) [35, 528 (1965)]

PTITSYN, G. V.
Temperature Hysteresis in Positive Surface Ionization and the Work Function of a Homogeneous Emitter. (E) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 871 (1965) [35, 1132 (1965)]

PTITSYN, G. V.
Positive Surface Ionization of Na on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Ptitsyn. 10, 893 (1965) [35, 1158 (1965)]

PTITSYN, G. V.
Optimum Conditions and Thresholds for Positive Surface Ionization. (E/T) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 1156 (1966) [35, 1493 (1965)]

PUSTOSHKIN, B. N.
Experimental Investigation of Mechanical Excitation of Phosphorus Suspensions in Solid Dielectrics. (E) O. A. Myazdrikov, O. S. Nikolaev, B. N. Pustoshkin, and V. M. Trofimov. 10, 1022 (1966) [35, 1319 (1965)]

PYATIGORSKII, G. M.
Surface Ionization of Molecules of Alkali Halide Salts. (T/E) G. M. Pyatigorskii. 10, 867 (1965) [35, 1127 (1965)]

PYATIGORSKII, G. M.
Temperature Hysteresis in Positive Surface Ionization and the Work Function of a Homogeneous Emitter. (E) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 871 (1965) [35, 1132 (1965)]

PYATIGORSKII, G. M.
Optimum Conditions and Thresholds for Positive Surface Ionization. (E/T) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 1156 (1966) [35, 1493 (1965)]

RABINOVICH, M. S.
Strong-Focusing Properties of a System of Opposed Magnetic Fields. (T) V. S. Zakharov and M. S. Rabinovich. 10, 702 (1965) [35, 910 (1965)]

RADZHABOV, T. D.
Sorption of Argon Ions by Titanium Films. (E) G. F. Ivanovskii and T. D. Radzhabov. 10, 1017 (1966) [35, 1312 (1965)]

RADZIEVSKII, V. N.
Concerning Fluctuations in a Nonequilibrium Magnetoactive Plasma. (T) A. G. Sitenko and V. N. Radzievskii. 10, 903 (1966) [35, 1165 (1965)]

RAFAL'SON, A. É.
The Quadrupole Mass Spectrometer and Its Use in Chemical and Isotopic Analysis. (R) A. É. Rafal'son. 10, 1 (1965) [35, 3 (1965)]

RAIGORODSKII, L. D.
A Study of the Reflection of the Atomic Beams of Potassium Rubidium, and Cesium from a Quartz Plate. (E) L. L. Myasnikov, L. D. Raigorodskii, and B. A. Finagin. 10, 421 (1965) [35, 542 (1965)]

RAKHOVSKII, V. I.
The Bridge Stage of Electrode Erosion in Switching 1000–5000-A Currents in Vacuum. (E/T) V. S. Potokin, V. I. Rakhovskii, and V. N. Tikhonov. 10, 1424 (1966) [35, 1848 (1965)]

RAKHOVSKII, V. I.
Cathode Emission Mechanism in an Arc Discharge. (T) V. I. Rakhovskii. 10, 1707 (1966) [35, 2228 (1965)]

RAMANYUK, L. I.
Formation of a Quasineutral Flux of Accelerated Ions in the Plasma Leaving an Ion Source. (E/T) M. D. Gabovich, L. I. Ramanyuk, and E. A. Lozovaya. 10, 70 (1965) [35, 94 (1965)]

RAMAZASHVILI, R. R.
Nonlinear Damping of Low-Frequency Plasma Waves. (T) R. R. Ramazashvili and N. L. Tsintsadze. 10, 615 (1965) [35, 788 (1965)]

REDKOBORODYI, Yu. N.
Bolometer Measurement of Emission from Argon Ionized by a Shock Wave. (E) Yu. N. Redkoborodyi and V. I. Fedulov. 10, 1275 (1966) [35, 1652 (1965)]

REIKHRUDEL', É. M.
Triggering Mechanism of a High-Vacuum Discharge in Crossed Electric and Magnetic Fields. (E/T) É. M. Reikhrudel' and É. P. Sheretov. 10, 972 (1966) [35, 1255 (1965)]

REKOVA, L. P.
Effect of Gases on Thermionic Emission of Platinum and Tungsten. (E) L. P. Rekova, Ya. M. Fogel', and A. P. Aleksandrov. 10, 1267 (1966) [35, 1642 (1965)]

REVUTSKII, E. I.
Investigation of the Properties of Superconducting Resonators at a Frequency of 1100 Mc. (E) I. S. Sidorenko and E. I. Revutskii. 10, 583 (1965) [35, 748 (1965)]

RODIONOVA, V. G.
Electrical Breakdown Through a Gap in Glass in an Atmosphere of Cesium Vapor. (E) Yu. K. Gus'kov, S. Ya. Lebedev, and V. G. Rodionova. 10, 123 (1965) [35, 156 (1965)]

ROIFE, I. M.
Effect of a Longitudinal High-Frequency Current on the Stability of a Quasiconstant String Discharge. (E) I. M. Roife, P. G. Popov, and S. P. Yakovlev. 10, 208 (1965) [35, 259 (1965)]

ROMANOV, A. A.
Adsorption Properties of Type A Zeolites at Liquid-Nitrogen Temperatures. (E) V. M. Lunev and A. A. Romanov. 10, 1287 (1966) [35, 1666 (1965)]

ROMANOV, A. M.
Detection of Several Particles in Acoustic Spark Chambers. (T) G. M. Gorodinskii, E. A. Damaskinskii, and A. M. Romanov. 10, 1472 (1966) [35, 1910 (1965)]

ROZHKOV, V. V.
Asymptotic Solution of a Diffusion Problem and Application to the Theory of Storage Rings. (T) A. S. Bakai, G. Ya. Lyubarskii, and V. V. Rozhkov. 10, 1183 (1966) [35, 1525 (1965)]

RUBIN, S. B.
On the Self-Consistent Hydrodynamic Problem of the Motion of Relativistic Electrons in a Homogeneous Magnetic Field. (T) S. B. Rubin. 10, 1351 (1966) [35, 1746 (1965)]

RUDAKOV, V. N.
Electromagnetic Probing of the Antarctic Ice Sheet. (E) V. V. Vogorodskii, V. N. Rudakov, and V. A. Tyul'pin. 10, 886 (1965) [35, 1150 (1965)]

RUDENKO, N. S.
An Investigation of the Electric Strength of Some Liquid Dielectrics Subject to Nanosecond Voltage Pulses. (E) N. S. Rudenko and V. I. Tsvetkov. 10, 1417 (1966) [35, 1840 (1965)]

RUKHADZE, A. A.
Excitation of Oscillations in Counterstreaming Inhomogeneous Plasma Streams. (T) I. S. Baikov and A. A. Rukhadze. 10, 1477 (1966) [35, 1913 (1965)]

RUKHADZE, A. A.
Instabilities of Electron Waves in Inhomogeneous Plasma Streams. (T/E) A. B. Mikhailovskii and A. A. Rukhadze. 10, 1644 (1966) [35, 2143 (1965)]

RUKHOVETS, A. N.
Electrostatic Field of a Pair of Thin Spherical Shells (Axially-Symmetric Problem). (T) A. N. Rukhovets and Ya. S. Uflyand. 10, 1188 (1966) [35, 1532 (1965)]

RUKHOVETS, A. N.
Solution of Some Electrostatic Problems Concerning the Field of an Open Spherical Condenser. (T) A. N. Rukhovets. 10, 1527 (1966) [35, 1989 (1965)]

RUSANOV, V. D.
Multiray Radiointerferometer for Plasma Diagnostics. (E) V. Ya. Balakhanov, V. D. Rusanov, and A. R. Striganov. 10, 96 (1965) [35, 127 (1965)]

RUTKEVICH, B. N.
Interaction Between High-Frequency and Ion Acoustic Waves in a Plasma. (E) V. D. Fedorchenko, V. I. Muratov, and B. N. Rutkevich. 10, 1549 (1966) [35, 2021 (1965)]

RYABININ, Yu. N.
Effect of Pressure on the Plasticity of Metals. (E) L. D. Livshits, Yu. N. Ryabinin, and B. I. Beresnev. 10, 278 (1965) [35, 348 (1965)]

RYABINKIN, Yu. S.
The Effect of the Area Change Rule on the Current Intensity in a One-Dimensional Electron Beam. (T) Yu. S. Ryabinkin. 10, 338 (1965) [35, 428 (1965)]

RYVKIN, S. M.
Excitation of Ultrasonic Oscillations in Germanium by Current Pulses. (Thermoacoustic Oscillations). (E/T) A. A. Grinberg, A. A. Kastal'skii, and S. M. Ryvkin. 10, 298 (1965) [35, 376 (1965)]

SAFRONOV, B. G.
The Possibility of Instability Formation in a Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 119 (1965) [35, 154 (1965)]

SAFRONOV, B. G.
Study of Some Characteristics of Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 640 (1965) [35, 823 (1965)]

SAFRONOV, B. G.
Polarization of Plasma Moving in a Curved Magnetic Field. (E) V. S. Voitsenya, A. G. Gorbanyuk, I. N. Onishchenko, V. V. Shkoda, and B. G. Safronov. 10, 1032 (1966) [35, 1330 (1965)]

SAKHAROV, I. E.
Electromagnetic Radiation from a Magnetized Plasma Traversed by an Electron Beam. (E) V. E. Golant, A. P. Zhilinskii, I. F. Liventseva, and I. E. Sakharov. 10, 1559 (1966) [35, 2034 (1965)]

SALANSKII, N. M.
The Barkhausen Effect in a Nickel-Cobalt Ferrite Single Crystal. (E) N. M. Salanskii, A. I. Drokin, R. P. Smolin, and S. Sh. Gendelev. 10, 276 (1965) [35, 345 (1965)]

SALIMOV, R. A.
Instability and Anamolous Diffusion in a Potassium Plasma. (E) N. S. Buchel'nikova, A. M. Kudryavtsev, and R. A. Salimov. 10, 53 (1965) [35, 72 (1965)]

SAMOILOV, I. M.
Effect of Space Charge on Longitudinal Particle Motion in Accelerator Injection. (T/E) I. M. Samoilov and A. A. Sokolov. 10, 1542 (1966) [35, 2012 (1965)]

SAMOKHIN, M. V.
Gravitational Separation of Charges in Plasma. (T) M. V. Samokhin. 10, 792 (1965) [35, 1032 (1965)]

SAMOKHIN, M. V.
On Electrostatic Charge Separation in a Plasma in Thermodynamic Equilibrium. (T) M. V. Samokhin. 10, 1332 (1966) [35, 1720 (1965)]

SANOCHKIN, Yu. V.
Instability of Plasma Under Superheated Conditions. Yu. V. Sanochkin. 10, 898 (1965) [35, 1163 (1965)]

SARKSYAN, K. A.
Acceleration of Plasma by an H_{11}-Type Electromagnetic Wave in a Circular Waveguide. (E) B. P. Kononov, K. A. Sarksyan, V. A. Silin, and L. É. Tsopp. 10, 36 (1965) [35, 51 (1965)]

SAZONOV, D. M.
Electromagnetic Excitation of a Spherical Radially Stratified Medium. (T) D. M. Sazonov and N. Ya. Frolov. 10, 763 (1965) [35, 990 (1965)]

SAVCHIK, L. S.
Resonance Charge Transfer in Zinc and Cadmium Vapor. (E) R. M. Kushnir, B. M. Palyukh, and L. S. Savchik. 10, 1695 (1966) [35, 2212 (1965)]

SAVOSKIN, V. I.
Ruby Laser Interferometric Measurement of Electron Concentration in a Plasma. (E) V. E. Mitsuk, V. I. Savoskin, and V. A. Chernikov. 10, 891 (1965) [35, 1156 (1965)]

SEDRAKYAN, D. M.
Radiation from the Open End of a Planar Semiinfinite Waveguide. (T/E) Yu. M. Aivazyan and D. M. Sedrakyan. 10, 358 (1965) [35, 459 (1965)]

SEMASHKO, N. N.
"Mixing" of Particles in a Magnetic Trap with a "Combined" Field. (T) B. I. Volkov, V. B. Glasko, A. G. Sveshnikov, and N. N. Semashko. 10, 1229 (1966) [35, 1590 (1965)]

SEMASHKO, N. N.
Ion Retardation in an Arc Discharge in a Magnetic Field. (T/E) V. B. Glasko, A. G. Sveshnikov, N. N. Semashko, and A. V. Timofeev. 10, 1596 (1966) [35, 2083 (1965)]

SERGEICHEV, K. F.
Experimental Study of Plasma Acceleration Brought About by the Gradient of a UHF Field. (E) I. R. Gekker, T. G. Konstantinova, G. S. Luk'yanchikov, and K. F. Sergeichev. 10, 450 (1965) [35, 577 (1965)]

SHAKHNOV, I. I.
Effect of Magnetic and Electric Fields on the Electron Temperature in an MHD Channel. (T) I. I. Shakhnov and I. B. Chekmarev. 10, 1054 (1966) [35, 1359 (1965)]

SHAPIRO, V. D.
The Passage of a Charged-Particle Beam Through a Plasma. (T) V. N. Tsytovich and V. D. Shapiro. 10, 1485 (1966) [35, 1925 (1965)]

SHAPOVALOV, A. S.
Note on the Space-Charge Effect of Particles on Their Focusing and on Their Energy Spread in the Field of a Planar Capacitor. (T/E) A. S. Shapovalov. 10, 810 (1965) [38, 1053 (1965)]

SHASHURIN, I. P.
Diffusion Theory of a Beam-Generated Plasma. (T/E) S. M. Levitskii and I. P. Shashurin. 10, 915 (1966) [35, 1182 (1965)]

SHCHERBININA, V. V.
Investigation of the Double Electrical Layer in a Plasma. (E) E. A. Bakulin, E. V. Stepin, and V. V. Shcherbinina. 10, 1102 (1966) [35, 1419 (1965)]

SHEIKO, V. P.
Experimental Investigation of the Fundamental-Mode Field Distribution in Open Resonators with Spherical Mirrors. (E) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 223 (1965) [35, 279 (1965)]

SHEIKO, V. P.
Instability of Confocal Systems. (E/T) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 1394 (1966) [35, 1806 (1965)]

SHENDEROVICH, A. M.
Propagation of Electromagnetic Waves in a Ferrite Inflector. (T) A. M. Shenderovich. 10, 1407 (1966) [35, 1825 (1965)]

SHERETOV, É. P.
Triggering Mechanism of a High-Vacuum Discharge in Crossed Electric and Magnetic Fields. (E/T) É. M. Reikhrudel' and É. P. Sheretov. 10, 972 (1966) [35, 1255 (1965)]

SHERMAN, S. G.
Calculation of the Efficiency of a μ-Meson Channel. (T) N. K. Abrosimov, V. A. Nikolaeva, and S. G. Sherman. 10, 1723 (1966) [35, 2248 (1965)]

SHEVCHENKO, S. A.
Radial Distribution of Electrical Conductivity in an Ionized Gas Jet. (T/E) S. M. Pavlov and S. A. Shevchenko. 10, 978 (1966) [35, 1262 (1965)]

SHEVCHENKO, V. I.
Nonlinear Theory of Low-Frequency Oscillations Excited in a Plasma by an Ion Beam. (T) D. G. Lominadze and V. I. Shevchenko. 10, 667 (1965) [35, 863 (1965)]

SHEVCHUK, B. A.
Performance of a Coaxial Plasma Source Generating Fast Particles. (E/T) A. D. Timofeev, V. G. Marinin, B. A. Shevchuk, and A. A. Kalmykov. 10, 662 (1965) [35, 858 (1965)]

SHKODA, V. V.
Polarization of Plasma Moving in a Curved Magnetic Field. (E) V. S. Voitsenya, A. G. Gorbanyuk, I. N. Onishchenko, V. V. Shkoda, and B. G. Safronov. 10, 1032 (1966) [35, 1330 (1965)]

SHNEERSON, G. A.
Investigation of Deformation of Single-Turn Solenoids in a Relatively Slowly Growing High-Intensity Magnetic Field. (E) V. P. Gordienko and G. A. Shneerson. 10, 834 (1965) [35, 1084 (1965)]

SHNEERSON, G. A.
Penetration of a Strong Pulsed Magnetic Field Into a Thin-Walled Cylinder Heated by Induced Current. (T) G. A. Shneerson. 10, 1712 (1966) [35, 2234 (1965)]

SHPAK, E. V.
Achromatic Electromagnetic Quadrupole Lens with Noncoincident Axial Field Distributions. II. (T/E) E. V. Shpak and S. Ya. Yavor. 10, 727 (1965) [35, 947 (1965)]

SHPIGEL', I. S.
The Motion of a Plasma Stream in a Toroidal Magnetic Field. (E) G. M. Batanov, M. A. Ivanovskii, and I. S. Shpigel'. 10, 196 (1965) [35, 242 (1965)]

SHPIGEL', I. S.
Investigation of a Titanium Plasma Source. (E) E. D. Andryukhina and I. S. Shpigel'. 10, 962 (1966) [35, 1242 (1965)]

SHPIGEL', I. S.
Magnetic Surfaces of a Stellarator with an $l = 2$ Winding. (E) M. S. Berezhetskii, S. E. Grebenshchikov, A. P. Popryadukhin, and I. S. Shpigel'. 10, 1662 (1966) [35, 2167 (1965)]

SHUBIN, A. P.
Axially Symmetric Flow of a Perfectly Conducting Gas Around a Corner. (T) A. P. Shubin. 10, 321 (1965) [35, 405 (1965)]

SHUKEILO, I. A.
Theoretical Analysis of the Extraction of Particles from a Synchrotron with Strong Focusing Under the Conditions of Parametric Resonance. (T) I. A. Shukeilo. 10, 333 (1965) [35, 421 (1965)]

SHUKEILO, I. A.
Effect of "Images" in Storage Rings. (T) I. A. Shukeilo. 10, 698 (1965) [35, 905 (1965)]

SHULIKA, N. G.
Application of Fast Particle Beams to the Study of Plasmoids. (E) L. I. Krupnik, N. G. Shulika, and P. A. Demchenko. 10, 556 (1965) [35, 711 (1965)]

SHUL'MAN, G. A.
Theory of the Periodic System of Elements Under High Pressure. I. (T) S. V. Izmailov and G. A. Shul'man. 10, 1455 (1966) [35, 1889 (1965)]

SHVETS, O. M.
A Study of the Properties of Plasma in Crossed Electric and Magnetic Fields. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, and V. T. Tolok. 10, 560 (1965) [35, 717 (1965)]

SHVETS, O. M.
High-Frequency Method for Producing a Dense Plasma in a Metallic Chamber. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, O. S. Pavlichenko, and V. T. Tolok. 10, 1675 (1966) [35, 2185 (1965)]

SIDORENKO, I. S.
Investigation of the Properties of Superconducting Resonators at a Frequency of 1100 Mc. (E) I. S. Sidorenko and E. I. Revutskii. 10, 583 (1965) [35, 748 (1965)]

SIDOROV, V. P
Plasma Entrainment by a Rotating Electromagnetic Field. (T) V. P. Sidorov and T. R. Soldatenkov. 10, 1354 (1966) [35, 1749 (1965)]

SIDOROVA, T. A.
Superconducting Niobium-Gallium Alloys. (E) Z. A. Guts, N. I. Krivko, V. K. Morozova, T. A. Sidorova, and A. A. Fogel'. 10, 1295 (1966) [35, 1675 (1965)]

SILIN, V. A.
Acceleration of Plasma by an H_{11}-Type Electromagnetic Wave in a Circular Waveguide. (E) B. P. Kononov, K. A. Sarkisyan, V. A. Silin, and L. É. Tsopp. 10, 36 (1965) [35, 51 (1965)]

SILIN-BEKCHURIN, I. A.
Investigation of the High-Frequency Discharge in a Neon-Helium Laser. (E) N. I. Krindach, I. A. Silin-Bekchrin, L. N. Tunitskii, and E. M. Cherkasov. 10, 1297 (1966) [35, 1678 (1965)]

SINEL'NIKOV, K. D.
An Investigation of Plasma Containment in a Crossed-Field Magnetic Trap. (E) V. G. Zykov, I. A. Stepanenko, V. T. Tolok, and K. D. Sinel'nikov. 10, 45 (1965) [35, 62 (1965)]

SINEL'NIKOV, K. D.
The Possibility of Instability Formation in a Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 119 (1965) [35, 154 (1965)]

SINEL'NIKOV, K. D.
Study of Some Characteristics of Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 640 (1965) [35, 823 (1965)]

SINEL'NIKOV, K. D.
Injection of Charged Particles into a Mirror System. (T/E) B. S. Akshanov, V. G. Marinin, A. I. Strel'tsov, and K. D. Sinel'nikov. 10, 1710 (1966) [35, 2232 (1965)]

SITENKO, A. G.
Concerning Fluctuations in a Nonequilibrium Magnetoactive Plasma. (T) A. G. Sitenko and V. N. Radzievskii. 10, 903 (1966) [35, 1165 (1965)]

SKIBENKO, E. I.
Supersonic Hydrogen Jet in Vacuum. (E) V. B. Yuferov, V. A. Kovalenko, E. I. Skibenko, and F. I. Busol. 10, 1177 (1966) [35, 1522 (1965)]

SLABOSPITSKII, R. P.
Mass-Spectrometer Study of a Low-Pressure Positive-Ion Source. (E) O. I. Ekhichev, G. N. Zinchenko, N. S. Zinchenko, I. M. Karnaukhov, and R. P. Slabospitskii. 10, 1461 (1966) [35, 1897 (1965)]

SLYUSARSKII, V. A.
Structure of a Grid-Diffracted Field. (E/T) V. A. Slyusarskii. 10, 1523 (1966) [35, 1984 (1965)]

SMIRNOV, B. M.
Resonance Charge Transfer in Inert Gases. (T) B. M. Smirnov and M. I. Chibisov. 10, 88 (1965) [35, 117 (1965)]

SMOLIN, R. P.
The Barkhausen Effect in a Nickel-Cobalt Ferrite Single Crystal. . (E) N. M. Salanskii, A. I. Drokin, R. P. Smolin, and S. Sh. Gendelev. 10, 276 (1965) [35, 345 (1965)]

SNEDKOV, B. A.
The Influence of Space Charge in Klystron-Type Bunchers. (T/E) . B. A. Snedkov. 10, 226 (1965) [35, 282 (1965)]

SNEDKOV, B. A.
The Equations of Motion of an Electron in the Field of a Travelling Electromagnetic Wave, Including Nonlinearities of the Second Order. (T) G. I. Zhileiko and B. A. Snedkov. 10, 377 (1965) [35, 486 (1965)]

SNEDKOV, B. A.
Minimum-Length Electron Bunches in a Klystron Buncher with Space-Charge Taken Into Account. (T/E) V. A. Galkov and B. A. Snedkov. 10, 1367 (1966) [35, 1767 (1965)]

SNOVIDOV, V. M.
On the Precision of Determining Fine-Structure Characteristics by the X-Ray Method. (T) A. S. Kagan and V.M. Snovidov. 10, 284 (1965) [35, 355 (1965)]

SOKOLOV, A. A.
Effect of Space Charge on Longitudinal Particle Motion in Accelerator Injection. (T/E) I. M. Samoilov and A. A. Sokolov. 10, 1542 (1966) [35, 2012 (1965)]

SOKOLOV, B. M.
Investigation of the Deionization of Plasma at Atmospheric Pressure, Using Super-High Frequencies. (E/T) S. I. Andreev and B. M. Sokolov. 10, 75 (1965) [35, 101 (1965)]

SOKOLOV, B. M.
Formation of a Spark Channel in Air. (E) S. I. Andreev and B. M. Sokolov. 10, 1003 (1966) [35, 1295 (1965)]

SOLDATENKOV, T. R.
Plasma Entrainment by a Rotating Electromagnetic Field. (T) V. P. Sidorov and T. R. Soldatenkov. 10, 1354 (1966) [35, 1749 (1965)]

SOLGAN, A. B.
Investigation of a Resonance High-Frequency Discharge in Crossed Fields. (E) D. A. Ganichev, S. A. Fridrikhov, B. M. Ashkinadze, and A. B. Solgan. 10, 633 (1965) [35, 813 (1965)]

SOMINSKII, G. G.
The Anomalous Nature of the Maximum Current Boundary in a Magnetron Generator. (E) G. G. Sominskii. 10, 129 (1965) [35, 162 (1965)]

SOMINSKII, G. G.
Azimuthal Distribution of the End Current in a Magnetron. (E) G. G. Sominskii. 10, 1377 (1966) [35, 1782 (1965)]

SOSHKA, V.
Dissociation of Molecular Ions Resulting from the Interaction with Surfaces of Solids. (E) V. A. Molchanov and V. Soshka. 10, 741 (1965) [35, 963 (1965)]

SRESELI, O. M.
Hall-Effect Transducers Using n-Type Gallium Arsenide. (E) N. V. Zotova, D. N. Nasledov, and O. M. Sreseli. 10, 1292 (1966) [35, 1672 (1965)]

STABNIKOV, M. V.
Combined Use of Nuclear Emulsions and Bubble Chambers. (E) V. I. Ostroumov and M. V. Stabnikov. 10, 1706 (1966) [36, 2227 (1965)]

STAKHANOV, I. P.
Current Oscillations in a Thermoelectron Energy Converter. (T/E) I. P. Stakhanov and A. S. Stepanov. 10, 100 (1965) [35, 132 (1965)]

STAKHANOV, I. P.
Effect of the Plasma Density Near the Electrodes on Conductivity in a Transverse Magnetic Field. (E/T) V. P. Pashchenko, I. P. Stakhanov, and A. S. Stepanov. 10, 132 (1965) [35, 165 (1965)]

STEKOL'NIKOV, I. S.
Discharge Phenomena in Liquids. (E/T) I. S. Stekol'nikov and V. Ya. Ushakov. 10, 1307 (1966) [35, 1692 (1965)]

STEPANENKO, I. A.
Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]

STEPANENKO, I. A.
An Investigation of Plasma Containment in a Crossed-Field Magnetic Trap. (E) V. G. Zykov, I. A. Stepanenko, V. T. Tolok, and K. D. Sinel'nikov. 10, 45 (1965) [35, 62 (1965)]

STEPANENKO, I. A.
Interaction of Polarized Plasma Streams in a Cusp Field. (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1078 (1966) [35, 1390 (1965)]

STEPANENKO, I. A.
Polarized Interaction of Counterstreaming Plasmoids in a Trap with Combined Fields (Ioffe Mirror). (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1225 (1966) [35, 1585 (1965)]

STEPANOV, A. S.
Current Oscillations in a Thermoelectron Energy Converter. (T/E) I. P. Stakhanov and A. S. Stepanov. 10, 100 (1965) [35, 132 (1965)]

STEPANOV, A. S.
Effect of the Plasma Density Near the Electrodes on Conductivity in a Transverse Magnetic Field. (E/T) V. P. Pashchenko, I. P. Stakhanov, and A. S. Stepanov. 10, 132 (1965) [35, 165 (1965)]

STEPANOV, K. N.
Excitation of Magnetoacoustic Waves in Colliding Plasma Streams. (T) D. G. Lominadze and K. N. Stepanov. 10, 113 (1965) [35, 148 (1965)]

STEPANOV, K. N.
Stability of Two Colliding Plasma Streams in a Magnetic Field. (T) D. G. Lominadze and K. N. Stepanov. 10, 169 (1965) [35, 205 (1965)]

STEPANOV, K. N.
Excitation of Longitudinal Low-Frequency Plasma Oscillations by a Flow of Charged Particles with Anisotropic Distribution Function. (T) D. G. Lominadze and K. N. Stepanov. 10, 352 (1965) [35, 449 (1965)]

STEPANOV, K. N.
Excitation of Plasma Oscillations by a Flow of Oscillators. (T) D. G. Lominadze and K. N. Stepanov. 10, 347 (1965) [35, 441 (1965)]

STEPANOV, K. N.
High-Frequence Focusing in Linear Accelerators. (T/E) L. A. Makhnenko, V. I. Pakhomov, and K. N. Stepanov. 10, 486 (1965) [35, 618 (1965)]

STEPANOV, K. N.
Concerning the Effect of Plasma Resonance on Surface Wave Propagation in a Nonuniform Plasma. (T) K. N. Stepanov. 10, 773 (1965) [35, 1002 (1965)]

STEPANOV, K. N.
Propagation of Surface Waves in Magnetoactive Plasma. (T) K. N. Stepanov. 10, 1048 (1966) [35, 1349 (1965)]

STEPIN, E. V.
Investigation of the Double Electrical Layer in a Plasma. (E) E. A. Bakulin, E. V. Stepin, and V. V. Shcherbinina. 10, 1102 (1966) [35, 1419 (1965)]

STEPIN, L. D.
Reply to the Remarks of B. V. Vanin [1]. (T) L. D. Stepin. 10, 748 (1965) [35, 971 (1965)]

STEPIN, L. D.
Dielectric Permeability of a Medium with Nonuniform Ellipsoidal Inclusions. (T) L. D. Stepin. 10, 768 (1965) [35, 996 (1965)]

STRASHKEVICH, A. M.
Focusing of Wide Beams in the Fields of Electrostatic Cylindrical Lenses and Transaxial Systems. (T) A. M. Strashkevich. 10, 147 (1965) [35, 177 (1965)]

STRASHKEVICH, A. M.
Use of the Effective-Potential Method in Relativistic Electron Optics. (T) A. M. Strashkevich. 10, 152 (1965) [35, 184 (1965)]

STREL'TSOV, A. I.
Injection of Charged Particles into a Mirror System. (T/E) B. S. Akshanov, V. G. Marinin, A. I. Strel'tsov, and K. D. Sinel'nikov. 10, 1710 (1966) [35, 2232 (1965)]

STRIGANOV, A. R.
Multiray Radiointerferometer for Plasma Diagnostics. (E) V. Ya. Balakhanov, V. D. Rusanov, and A. R. Striganov. 10, 96 (1965) [35, 127 (1965)]

STRIZHEVSKII, V. L.
Investigation of Faraday UHF Devices Under Variable Magnetization Conditions. (T/E) I. A. Deryugin, V. L. Strizhevskii, and P. S. Kuts. 10, 424 (1965) [35, 546 (1965)]

STUCHEBNIKOV, V. M.
Coherent Radiation from Gallium-Arsenide Luminescent Diodes with a Triangular Resonator. (E) É. A. Poltoratskii, V. M. Stuchebnikov, and A. É. Yunovich. 10, 1173 (1966) [35, 1516 (1965)]

SUCHKIN, G. L.
A Resonance Particle Counter. (T) G. L. Suchkin. 10, 992 (1966) [35, 1280 (1965)]

SUDZILOVSKII, V. Yu.
Use of Laser Radiation to Create a Strong Electron Source. (E) O. V. Bogdankevich, V. Yu. Sudzilovskii, and A. A. Lozhnikov. 10, 1573 (1966) [35, 2052 (1965)]

SUETIN, P. E.
Investigation of Diffusion Slip by Means of the Baroeffect. (T/E) P. V. Volobuev and P. E. Suetin. 10, 269 (1965) [35, 336 (1965)]

SUETIN, P. E.
A Contribution to the Thermodynamic Theory of the Kirkendall Effect. (T) P. E. Suetin and P. V. Volobuev. 10, 1305 (1966) [35, 1689 (1965)]

SULADZE, K. V.
Emission Properties of the Plasma of Vacuum Sparks. I. Ions Beams. (E) K. V. Suladze and A. A. Plyutto. 10, 1006 (1966) [35, 1298 (1965)]

SUPRUNENKO, V. A.
Bremsstrahlung from a Solid Target in a Plasma. (T) V. F. Aleksin and V. A. Suprunenko. 10, 1465 (1966) [35, 1902 (1965)]

SUSHKOV, A. D.
The Klystron Method of Generating Nano- and Subnanosecond Videopulses. I. (T) A. D. Sushkov and V. A. Meos. 10, 565 (1965) [35, 723 (1965)]

SUSHKOV, A. D.
The Klystron Method of Generating Nano- and Subnanosecond Videopulses. II. (E) A. D. Sushkov and V. A. Meos. 10, 576 (1965) [35, 739 (1965)]

SUSHKOV, A. D.
Effect of Inhomogeneity on the Properties of a Circular Resonator. (T) A. D. Sushkov and I. B. Vendik. 10, 1244 (1966) [35, 1610 (1965)]

SUZDALEV, V. A.
Nonlinear Study of Spatial Focusing in Magnetic Focusing Systems with r^{-1} Fields. (T) A. F. Malov, V. A. Suzdalev, and E. P. Fedoseev. 10, 705 (1965) [35, 914 (1965)]

SVESHNIKOV, A. G.
"Mixing" of Particles in a Magnetic Trap with a "Combined" Field. (T) B. I. Volkov, V. B. Glasko, A. G. Sveshnikov, and N. N. Semashko. 10, 1229 (1966) [35, 1590 (1965)]

SVESHNIKOV, A. G.
Ion Retardation in an Arc Discharge in a Magnetic Field. (T/E) V. B. Glasko, A. G. Sveshnikov, N. N. Semashko, and A. V. Timofeev. 10, 1596 (1966) [35, 2083 (1965)]

SVYADOSHCH, E. A.
Calculation of a Low-Frequency Electromagnetic Field in Coordinates for which Laplace's Equation is Separable. (T) D. B. Gurvich and E. A. Svyadoshch. 10, 1657 (1966) [35, 2160 (1965)]

SZILADI, M.
Motion of Relativistic Charged Particles in Two-Dimensional Electron Optical Systems with a Median Plane. (T) M. Sziladi and S. Ya. Yavor. 10, 319 (1965) [35, 402 (1965)]

TALANOV, V. I.
Application of the Lorentz Lemma to Calculation of the Radiation Fields from Given Sources in Unbounded Media. (T) I. G. Kondrat'ev and V. I. Talanov. 10, 444 (1965) [35, 571 (1965)]

TARANTIN, N. I.
On the Design of Double-Focusing Magnetic Spectrometers. (T) N. I. Tarantin and A. V. Dem'yanov. 10, 154 (1965) [35, 186 (1965)]

TARASENKO, V. F.
A Study of the Properties of Plasma in Crossed Electric and Magnetic Fields. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, and V. T. Tolok. 10, 560 (1965) [35, 717 (1965)]

TARASENKO, V. F.
High-Frequency Method for Producing a Dense Plasma in a Metallic Chamber. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, O. S. Pavlichenko, and V. T. Tolok. 10, 1675 (1966) [35, 2185 (1965)]

TATARINOVA, N. V.
Small Postdischarge Emission as an Indicator of the Surface State of Electrodes in Experiments of Vacuum Breakdown. (E) P. N. Chistyakov and N. V. Tatarinova. 10, 1035 (1966) [35, 1333 (1965)]

TIKHONOV, V. N.
The Bridge Stage of Electrode Erosion in Switching 1000–5000-A Currents in Vacuum. (E/T) V. S. Potokin, V. I. Rakhovskii, and V. N. Tikhonov. 10, 1424 (1966) [35, 1848 (1965)]

TIMOFEEV, A. D.
Performance of a Coaxial Plasma Source Generating Fast Particles. (E/T) A. D. Timofeev, V. G. Marinin, B. A. Shevchuk, and A. A. Kalmykov. 10, 662 (1965) [35, 858 (1965)]

TIMOFEEV, A. V.
Ion Retardation in an Arc Discharge in a Magnetic Field. (T/E) V. B. Glasko, A. G. Sveshnikov, N. N. Semashko, and A. V. Timofeev. 10, 1596 (1966) [35, 2083 (1965)]

TOLOK, V. T.
Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]

TOLOK, V. T.
An Investigation of Plasma Containment in a Crossed-Field Magnetic Trap. (E) V. G. Zykov, I. A. Stepanenko, V. T. Tolok, and K. D. Sinel'nikov. 10, 45 (1965) [35, 62 (1965)]

TOLOK, V. T.
A Study of the Properties of Plasma in Crossed Electric and Magnetic Fields. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, and V. T. Tolok. 10, 560 (1965) [35, 717 (1965)]

TOLOK, V. T.
Interaction of Polarized Plasma Streams in a Cusp Field. (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1078 (1966) [35, 1390 (1965)]

TOLOK, V. T.
Polarized Interaction of Counterstreaming Plasmoids in a Trap with Combined Fields (Ioffe Mirror). (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1225 (1966) [35, 1585 (1965)]

TOLOK, V. T.
Polarization of Plasma Moving in a Helical Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1232 (1966) [35, 1594 (1965)]

TOLOK, V. T.
Polarization of Plasma Moving in a Toroidal Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1235 (1966) [35, 1598 (1965)]

TOLOK, V. T.
Polarization of Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1238 (1966) [35,

TOLOK, V. T.
High-Frequency Method for Producing a Dense Plasma in a Metallic Chamber. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, O. S. Pavlichenko, and V. T. Tolok. 10, 1675 (1966) [35, 2185 (1965)]

TONTEGODE, A. Ya.
Ion-Current Distribution in Penning Discharge Tubes. (E) Yu. E. Kreindel'. 10, 252 (1965) [35, 315 (1965)]

TONTEGODE, A. Ya.
Surface Ionization of Li, Na, K, and Cs Atoms and LiCl, KCl, and CsCl Molecules on Polycrystalline Rhenium. (E/T) É. Ya. Zandberg and A. Ya. Tontegode. 10, 858 (1965) [35, 1115 (1965)]

TONTEGODE, A. Ya.
Thermionic Emission Constants of Molybdenum, Tantalum, and Tungsten Wires. (E) É. Ya. Zandberg and A. Ya. Tontegode. 10, 1162 (1966) [35, 1501 (1965)]

TONTEGODE, A. Ya.
Mass-Spectrometer Determination of the Heat of Vaporization of Atoms and Positive Ions in Sublimation of Polycrystalline Rhenium, Tungsten, Tantalum, and Molybdenum. (E) É. Ya. Zandberg, N. I. Ionov, and A. Ya. Tontegode. 10, 1164 (1966) [35, 1504 (1965)]

TREKHOV, E. S.
Investigation of Cathode Spots in a Pulsed Discharge Between Parallel Electrodes. (E) R. Basharov, E. N. Gavrilovskaya, O. A. Malkin, and E. S. Trekhov. 10, 1428 (1966) [35, 1853 (1965)]

TRETENKO, M. E.
Measurement of the Temperature of Free Electrons in a Rarefied Acetylene–Air Flame. (E) V. I. Tverdokhlebov and M. E. Tretenko. 10, 802 (1965) [35, 1044 (1965)]

TROFIMOV, V. M.
Experimental Investigation of Mechanical Excitation of Phosphorus Suspensions in Solid Dielectrics. (E) O. A. Myazdrikov, O. S. Nikolaev, B. N. Pustoshkin, and V. M. Trofimov. 10, 1022 (1966) [35, 1319 (1965)]

TRUBCHNINOV, S. A.
Instability Development in a Plasmoid Moving in a Longitudinal Magnetic Field. (E) A. A. Kalmykov, S. A. Trubchninov, and V. A. Naboka. 10, 137 (1965) [35, 169 (1965)]

TSARENKOV, A. P.
Controlling a Beam of Accelerated Particles in the Irradiation of Thin Targets in the Dubna Synchrophasotron. (E) G. S. Kazanskii and A. P. Tsarenkov. 10, 327 (1965) [35, 414 (1965)]

TSARENKOV, A. P.
Flux Stabilization of Particle Beams in the Synchrophasotron of the Joint Institute of Nuclear Research. (E) G. S. Kazanskii, A. I. Mikhailov, and A. P. Tsarenkov. 10, 490 (1965) [35, 623 (1965)]

TSENDIN, L. D.
Effect of Electron Heating on the Acoustic Instability of a Plasma in an Electric Field. (T) L. D. Tsendin. 10, 1514 (1966) [35, 1972 (1965)]

TSINTSADZE, N. L.
Nonlinear Damping of Low-Frequency Plasma Waves. (T) R. R. Ramazashvili and N. L. Tsintsadze. 10, 615 (1965) [35, 788 (1965)]

TSIRKEL', B. I.
Volt-Ampere Characteristics of a Thermionic Converter. (E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, B. I. Tsirkel', and V. G. Yur'ev. 10, 1575 (1966) [35, 2054 (1965)]

TSOPP, L. É.
Acceleration of Plasma by an H_{11}-Type Electromagnetic Wave in a Circular Waveguide. (E) B. P. Kononov, K. A. Sarksyan, V. A. Silin, and L. É. Tsopp. 10, 36 (1965) [35, 51 (1965)]

TSVETKOV, V. I.
An Investigation of the Electric Strength of Some Liquid Dielectrics Subject to Nanosecond Voltage Pulses. (E) N. S. Rudenko and V. I. Tsvetkov. 10, 1417 (1966) [35, 1840 (1965)]

TSYRLIN, L. É.
Two Problems in Electrostatics for Fields with Cylindrical Boundaries. (T) L. É. Tsyrlin. 10, 752 (1965) [35, 973 (1965)]

TSYTOVICH, V. N.
On the Nonlinear Theory of Electron Bunch Interaction in a Plasma with Transverse Waves. (T) L. M. Kovrizhnykh and V. N. Tsytovich. 10, 10 (1965) [35, 14 (1965)]

TSYTOVICH, V. N.
Nonlinear Generation of Plasma Waves by a Beam of Transverse Waves. I. (T) V. N. Tsytovich. 10, 605 (1965) [35, 773 (1965)]

TSYTOVICH, V. N.
The Passage of a Charged-Particle Beam Through a Plasma. (T) V. N. Tsytovich and V. D. Shapiro. 10, 1485 (1966) [35, 1925 (1965)]

TUNITSKII, L. N.
Investigation of the High-Frequency Discharge in a Neon-Helium Laser. (E) N. I. Krindach, I. A. Silin-Bekchrin, L. N. Tunitskii, and E. M. Cherkasov. 10, 1297 (1966) [35, 1678 (1965)]

TVERDOKHLEBOV, V. I.
Measurement of the Temperature of Free Electrons in a Rarefied Acetylene–Air Flame. (E) V. I. Tverdokhlebov and M. E. Tretenko. 10, 802 (1965) [35, 1044 (1965)]

TYULINA, M. A.
Acceleration of Ions in Plasma Formed when the Current is Interrupted by Contacts Placed in Vacuum. (E) M. A. Tyulina. 10, 396 (1965) [35, 511 (1965)]

TYUL'PIN, V. A.
Electromagnetic Probing of the Antarctic Ice Sheet. (E) V. V. Vogorodskii, V. N. Rudakov, and V. A. Tyul'pin. 10, 886 (1965) [35, 1150 (1965)]

UDALOV, V. F.
Study of Magnetic States of Uniaxial Ferromagnetic Films on the Basis of the Rotation Model. (T) V. F. Udalov. 10, 1413 (1966) [35, 1834 (1965)]

UDOVICHENKO, Yu. K.
Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. I. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

UFLYAND, Ya. S.
Electrostatic Field of a Pair of Thin Spherical Shells (Axially-Symmetric Problem). (T) A. N. Rukhovets and Ya. S. Uflyand. 10, 1188 (1966) [35, 1532 (1965)]

UMANSKII, D. M.
Effect of a Magnetic Field on the Dielectric Constant of Process Water. (E) D. M. Umanskii. 10, 1720 (1966) [35, 2245 (1965)]

USHAKOV, V. Ya.
Discharge Phenomena in Liquids. (E/T) I. S. Stekol'nikov and V. Ya. Ushakov. 10, 1307 (1966) [35, 1692 (1965)]

USHAKOV, V. Ya.
Development of a Discharge in a Liquid Dielectric with Ramp Function Voltage Pulses. (E) V. Ya. Ushakov. 10, 1420 (1966) [35, 1844 (1965)]

USTINOV, Yu. K.
An Investigation of Chemisorption of Carbon Monoxide on Polycrystalline Tungsten Filaments by the Flash Method. (E) Yu. K. Ustinov, V. N. Ageev, and N. I. Ionov. 10, 851 (1965) [35, 1106 (1965)]

USTINOV, Yu. K.
Study of the Chemisorption of Nitrogen on Polycrystalline Tungsten Filaments by the Flash Method. (E) Yu. K. Ustinov and N. I. Ionov. 10, 1607 (1968) [35, 2099 (1965)]

VAGIN, V. A.
Investigation of Hybrid Waves in a Circular Waveguide Partially Filled with Dielectric. (T/E) V. A. Vagin and V. I. Kotov. 10, 987 (1968) [35, 1273 (1965)]

VAGNER, S. D.
Effect of a Magnetic Field on the Parameters of a High-Frequency Discharge. (E) S. D. Vagner and N. A. Krylov. 10, 1105 (1968) [35, 1423 (1965)]

VANDAKUROV, Yu. V.
Stabilization of Certain Instabilities of a Current-Carrying Plasma Pinch in a Strong Magnetic Field. (T) Yu. V. Vandakurov. 10, 310 (1965) [35, 390 (1965)]

VANDAKUROV, Yu. V.
Retarded Development of Flute Instabilities on Strong Interaction of Plasma with a Neutral Gas. (T) Yu. V. Vandakurov. 10, 316 (1965) [35, 398 (1965)]

VANDAKUROV, Yu. V.
Stability of a Rotating Plasma Pinch in the Presence of High-Frequency Radial Pulsations. (T) Yu. V. Vandakurov. 10, 1058 (1968) [35, 1364 (1965)]

VANIN, B. V.
Observations on "The Dielectric Constant of a Medium with Inhomogeneous Spherical Inclusions" by L. D. Stepin [1]. (T) B. V. Vanin. 10, 746 (1965) [35, 969 (1965)]

VASIL'EV, E. N.
Excitation of Dielectric Bodies of Revolution. (T) E. N. Vasil'ev and L. B. Materikova. 10, 1401 (1966) [35, 1817 (1965)]

VASIL'EVA, N. K.
Use of a System with Retarding Potentials in Mass Spectrometry. (T/E) L. N. Gall' and N. K. Vasil'eva. 10, 1149 (1966) [35, 1483 (1965)]

VENDIK, I. B.
Effect of Inhomogeneity on the Properties of a Circular Resonator. (T) A. D. Sushkov and I. B. Vendik. 10, 1244 (1966) [35, 1610 (1965)]

VERBITSKII, I. L.
Effect of Asymmetry of the Interaction Space on Steady-State Characteristics of a Cylindrical Magnetron. (E) G. A. Levin, I. L. Verbitskii, V. I. Vigdorchik, V. I. Maksimov, and M. V. Mil'cho. 10, 403 (1965) [35, 519 (1965)]

VIGDORCHIK, V. I.
Effect of Asymmetry of the Interaction Space on Steady-State Characteristics of a Cylindrical Magnetron. (E) G. A. Levin, I. L. Verbitskii, V. I. Vigdorchik, V. I. Maksimov, and M. V. Mil'cho. 10, 403 (1965) [35, 519 (1965)]

VINOGRADOV, N. I.
Decay of a Helium Plasma in a Spherical Chamber. (E) A. I. Anisimov, V. N. Budnikov, and N. I. Vinogradov. 10, 1554 (1966) [35, 2028 (1965)]

VINOGRADOV, N. I.
Open Cylindrical Resonators in Plasma Research. (E) A. I. Anisimov, V. N. Budnikov, N. I. Vinogradov, and V. E. Golant. 10, 1566 (1966) [35, 2042 (1965)]

VITKOV, M. G.
Penetration of a Pulsed Magnetic Field into the Interior of a Cylindrical Screen. (T) M. G. Vitkov. 10, 324 (1965) [35, 410 (1965)]

VITKOV, M. G.
Pulse Excitation of a Magnetic Field in a Cylindrical Shield. (T) M. G. Vitkov. 10, 1380 (1966) [35, 1786 (1965)]

VLADIMIROV, V. I.
Corrections to the Kinetic Coefficients of a Plasma with Large Radiation Pressure as a Result of Compton Scattering. (T) V. I. Vladimirov. 10, 162 (1965) [35, 196 (1965)]

VOGORODSKII, V. V.
Electromagnetic Probing of the Antarctic Ice Sheet. (E) V. V. Vogorodskii, V. N. Rudakov, and V. A. Tyul'pin. 10, 886 (1965) [35, 1150 (1965)]

VOITSENYA, V. S.
Polarization of Plasma Moving in a Curved Magnetic Field. (E) V. S. Voitsenya, A. G. Gorbanyuk, I. N. Onishchenko, V. V. Shkoda, and B. G. Safronov. 10, 1032 (1966) [35, 1330 (1965)]

VOLKOV, B. I.
"Mixing" of Particles in a Magnetic Trap with a "Combined" Field. (T) B. I. Volkov, V. B. Glasko, A. G. Sveshnikov, and N. N. Semashko. 10, 1229 (1966) [35, 1590 (1965)]

VOLKOV, Ya. F.
Investigation of a θ-Pinch Plasma with an Azimuthal Magnetic Field. (E) Ya. F. Volkov, V. G. Dyamlov, and N. I. Mitina. 10, 797 (1965) [35, 1039 (1965)]

VOLOBUEV, P. V.
Investigation of Diffusion Slip by Means of the Baroeffect. (T/E) P. V. Volobuev and P. E. Suetin. 10, 269 (1965) [35, 336 (1965)]

VOLOBUEV, P. V.
A Contribution to the Thermodynamic Theory of the Kirkendall Effect. (T) P. E. Suetin and P. V. Volobuev. 10, 1305 (1966) [35, 1689 (1965)]

YAKOVLEV, S. P.
Effect of a Longitudinal High-Frequency Current on the Stability of a Quasiconstant String Discharge. (E) I. M. Roife, P. G. Popov, and S. P. Yakovlev. 10, 208 (1965) [35, 259 (1965)]

YAKUBOVICH, E. I.
Distribution Functions of Plasma Electrons and Ions in a Weakly-Inhomogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 81 (1965) [35, 108 (1965)]

YAKUBOVICH, E. I.
Ohmic Heating of a Partly Ionized Plasma by a Homogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 135 (1965) [35, 168 (1965)]

YAKUSHEV, E. M.
Solution of the Equations of Motion of Nonrelativistic Charged Particles in a Certain Type of Alternating Electromagnetic Field. (T) L. G. Glikman, V. M. Kel'man, and E. M. Yakushev. 10, 1532 (1966) [35, 1997 (1965)]

YAVOR, S. Ya.
Motion of Relativistic Charged Particles in Two-Dimensional Electron Optical Systems with a Median Plane. (T) M. Sziladi and S. Ya. Yavor. 10, 319 (1965) [35, 402 (1965)]

YAVOR, S. Ya.
Effect of Geometrical Parameters on Optical Characteristics of a System of Four Quadrupole Lenses Similar to an Axisymmetric Lens. (T/E) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 340 (1965) [35, 431 (1965)]

YAVOR, S. Ya.
Spherical Aberration of the Width of the Line Image in the Combined Quadrupole Lens. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 592 (1965) [35, 759 (1965)]

YAVOR, S. Ya.
Motion of Charged Particles in Axisymmetric Electromagnetic Fields with a Median Plane. (T) S. Ya. Yavor. 10, 719 (1965) [35, 935 (1965)]

YAVOR, S. Ya.
Third-Order Aberration of the Width of a Line Image in a Combined Quadrupole Lens. (T) L. P. Ovsyannikova and S. Ya. Yavor. 10, 723 (1965) [35, 940 (1965)]

YAVOR, S. Ya.
Achromatic Electromagnetic Quadrupole Lens with Noncoincident Axial Field Distributions. II. (T/E) E. V. Shpak and S. Ya. Yavor. 10, 727 (1965) [35, 947 (1965)]

YAVOR, S. Ya.
Spherical Aberration of a Combined Quadrupole Lens with a Bell-Shaped Field Distribution. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 822 (1965) [35, 1068 (1965)]

YUFEROV, V. B.
Supersonic Hydrogen Jet in Vacuum. (E) V. B. Yuferov, V. A. Kovalenko, E. I. Skibenko, and F. I. Busol. 10, 1177 (1966) [35, 1522 (1965)]

YUNOVICH, A. É.
Triangular Resonator for Coherent Light Sources. (T) A. É. Yunovich. 10, 998 (1966) [35, 1288 (1965)]

YUNOVICH, A. É.
Coherent Radiation from Gallium-Arsenide Luminescent Diodes with a Triangular Resonator. (E) É. A. Poltoratskii, V. M. Stuchebnikov, and A. É. Yunovich. 10, 1173 (1966) [35, 1516 (1965)]

YUR'EV, V. G.
On the Most Efficient Regimes for Operation of a Thermionic Converter. (T/E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, and V. G. Yur'ev. 10, 895 (1965) [35, 1160 (1965)]

YUR'EV, V. G.
Volt-Ampere Characteristics of a Thermionic Converter. (E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, B. I. Tsirkel', and V. G. Yur'ev. 10, 1575 (1966) [35, 2054 (1965)]

ZAKHAROV, V. S.
Strong-Focusing Properties of a System of Opposed Magnetic Fields. (T) V. S. Zakharov and M. S. Rabinovich. 10, 702 (1965) [35, 910 (1965)]

ZALKIND, V. M.
Polarization of Plasma Moving in a Helical Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1232 (1966) [35, 1594 (1965)]

ZALKIND, V. M.
Polarization of Plasma Moving in a Toroidal Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1235 (1966) [35, 1598 (1965)]

ZALKIND, V. M.
Polarization of Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1238 (1966) [35, 1602 (1965)]

ZANDBERG, É. Ya.
Some Thermal Emission Properties of Polycrystalline Rhenium Wires. (E) É. Ya. Zandberg and A. Ya. Tontegode. 10, 260 (1965) [35, 325 (1965)]

ZANDBERG, É. Ya.
Emission of Positive and Negative Molecular Ions from Heated Surfaces. (E) I. N. Bakulina, É. Ya. Zandberg, and N. I. Ionov. 10, 437 (1965) [35, 562 (1965)]

ZANDBERG, É. Ya.
Surface Ionization of Li, Na, K, and Cs Atoms and LiCl, KCl, and CsCl Molecules on Polycrystalline Rhenium. (E/T) É. Ya. Zandberg and A. Ya. Tontegode. 10, 858 (1965) [35, 1115 (1965)]

ZANDBERG, É. Ya.
Intrinsic Thermionic Emission of Lanthanum Hexaboride and Surface Ionization of Cesium Atoms on Lanthanum Hexaboride. (E) É. Ya. Zandberg and V. I. Paleev. 10, 1014 (1966) [34, 1308 (1965)]

ZANDBERG, É. Ya.
Thermionic Emission Constants of Molybdenum, Tantalum, and Tungsten Wires. (E) É. Ya. Zandberg and A. Ya. Tontegode. 10, 1162 (1966) [35, 1501 (1965)]

ZANDBERG, É. Ya.
Mass-Spectrometer Determination of the Heat of Vaporization of Atoms and Positive Ions in Sublimation of Polycrystalline Rhenium, Tungsten, Tantalum, and Molybdenum. (E) É. Ya. Zandberg, N. I. Ionov, and A. Ya. Tontegode. 10, 1164 (1966) [35, 1504 (1965)]

ZANDBERG, É. Ya.
Surface Ionization on Silicon. (T/E) É. Ya. Zandberg and V. I. Paleev. 10, 1602 (1966) [35, 2092 (1965)]

ZASHKVARA, V. V.
Correction of Angular Aberrations in the Two-Sector Electrostatic Analyzer. (E) V. V. Zashkvara, M. I. Korsunskii, and O. S. Kosmachev. 10, 818 (1965) [35, 1063 (1965)]

ZHARINOV, A. V.
Characteristics of a Low-Pressure Discharge in a Transverse Magnetic Field. (E/T) N. A. Kervalishvili and A. V. Zharinov. 10, 1682 (1966) [35, 2194 (1965)]

ZHILEIKO, G. I.
The Equations of Motion of an Electron in the Field of a Travelling Electromagnetic Wave, Including Nonlinearities of the Second Order. (T) G. I. Zhileiko and B. A. Snedkov. 10, 377 (1965) [35, 486 (1965)]

ZHILEIKO, G. I.
On the Use of Relativistic Electron Beams for Plasma Investigation. (T) G. I. Zhileiko and S. I. Baskakov. 10, 794 (1965) [35, 1035 (1965)]

ZHILEIKO, G. I.
Solution of the Equations of Motion in Traveling-Wave Electron Accelerators. (T) G. I. Zhileiko. 10, 1715 (1966) [35, 2239 (1965)]

ZHILINSKII, A. P.
Electromagnetic Radiation from a Magnetized Plasma Traversed by an Electron Beam. (E) V. E. Golant, A. P. Zhilinskii, I. F. Liventseva, and I. E. Sakharov. 10, 1559 (1966) [35, 2034 (1965)]

ZHUKOV, A. A.
Formation of a Space Charge in a High-Frequency Electric Field in Air. (E/T) A. A. Zhukov. 10, 116 (1965) [35, 151 (1965)]

ZINCHENKO, G. N.
Mass-Spectrometer Study of a Low-Pressure Positive-Ion Source. (E) O. I. Ekhichev, G. N. Zinchenko, N. S. Zinchenko, I. M. Karnaukhov, and R. P. Slabospitskii. 10, 1461 (1966) [35, 1897 (1965)]

ZINCHENKO, N. S.
Mass-Spectrometer Study of a Low-Pressure Positive-Ion Source. (E) O. I. Ekhichev, G. N. Zinchenko, N. S. Zinchenko, I. M. Karnaukhov, and R. P. Slabospitskii. 10, 1461 (1966) [35, 1897 (1965)]

ZOLOTOTRUBOV, I. M.
Distribution of Current in a Coaxial Plasma Gun. (E) I. M. Zolototrubov, V. A. Kiselev, and Yu. M. Novikov. 10, 204 (1965) [35, 253 (1965)]

ZOTOVA, N. V.
Hall-Effect Transducers Using n-Type Gallium Arsenide. (E) N. V. Zotova, D. N. Nasledov, and O. M. Sreseli. 10, 1292 (1966) [35, 1672 (1965)]

ZYKOV, A. I.
Calculation of the Phase Velocity of the Wave in the Diaphragmed Waveguide of a Linear Accelerator. (T/E) A. I. Zykov and L. A. Makhnenko. 10, 379 (1965) [35, 489 (1965)]

ZYKOV, A. I.
Calculation of Field Intensity in the Traveling Wave Linear Accelerator. (T/E) L. A. Makhnenko, A. I. Zykov, and G. D. Kramskoi. 10, 384 (1965) [35, 496 (1965)]

ZYKOV, A. I.
Calculation of the Group Velocity of the Wave and the Damping in the Diaphragmed Waveguide of a Linear Accelerator. (T/E) A. I. Zykov and L. A. Makhnenko. 10, 389 (1965) [35, 502 (1965)]

ZYKOV, A. I.
Determination of the Equivalent Reflection Coefficient of a Diaphragmed Waveguide in a Linear Accelerator. (T/E) A. I. Zykov, L. A. Makhnenko, and G. D. Kramskoi. 10, 393 (1965) [35, 508 (1965)]

ZYKOV, V. G.
Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]

ZYKOV, V. G.
An Investigation of Plasma Containment in a Crossed-Field Magnetic Trap. (E) V. G. Zykov, I. A. Stepanenko, V. T. Tolok, and K. D. Sinel'nikov. 10, 45 (1965) [35, 62 (1965)]

ZYKOV, V. G.
Interaction of Polarized Plasma Streams in a Cusp Field. (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1078 (1966) [35, 1390 (1965)]

ZYKOV, V. G.
Polarized Interaction of Counterstreaming Plasmoids in a Trap with Combined Fields (Ioffe Mirror). (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1225 (1966) [35, 1585 (1965)]

ZYKOV, V. G.
Polarization of Plasma Moving in a Helical Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1232 (1966) [35, 1594 (1965)]

ZYKOV, V. G.
Polarization of Plasma Moving in a Toroidal Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1235 (1966) [35, 1598 (1965)]

ZYKOV, V. G.
Polarization of Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1238 (1966) [35, 1602 (1965)]

SUBJECT INDEX

SOVIET PHYSICS–TECHNICAL PHYSICS

Volume 10, 1965

A translation of Zhurnal Tekhnicheskoĭ Fiziki

Acoustics
Announcements
Antennas
Apparatus
Atomic Physics
Chemical Physics
Crystalline State
Dielectrics and Dielectric Phenomena
Diffusion
Elasticity and Plasticity
Electrical Discharges
Electrical Properties
Electromagnetic Waves and Fields
Electron and Ion Beams
Electron and Ion Emission and Absorption
Electron and Ion Optics
Electrostatics
Ferromagnetic Materials and Ferrites
Fluid Dynamics
Ionization
Liquids
Magnetic Phenomena
Magnetohydrodynamics
Masers and Lasers
Mass Spectrometry
Mathematical Physics
Molecular Physics
Nuclear Physics and Instrumentation
Optics and Optical Techniques
Plasma Physics
Plasma Radiation
Plasma Stability
Plasmoids
Resonance
Scattering
Semiconductors
Shock Waves
Space Charge
Spectra
Spectroscopy
Superconductivity
Surface Phenomena
Thermal Properties
Thermodynamics
Thermoelectricity
Turbulence
Vacuum Technology
Waveguides
X Rays and Gamma Rays

Acoustics

Excitation of Ultrasonic Oscillations in Germanium by Current Pulses. (Thermoacoustic Oscillations). (E/T) A. A. Grinberg, R. A. Kastal'skiĭ, and S. M. Ryvkin. 10, 298 (1965) [35, 376 (1965)]

Cyclotron Excitation of Magnetosonic Waves by a Stream of Charged Particles. (T/E) V. V. Angeleĭko and A. B. Kitsenko. 10, 365 (1965) [35, 470 (1965)]

Detection of Several Particles in Acoustic Spark Chambers. (T) G. M. Gorodinskiĭ, E. A. Damaskinskiĭ, and A. M. Romanov. 10, 1472 (1966) [35, 1910 (1965)]

Effect of Electron Heating on the Acoustic Instability of a Plasma in an Electric Field. (T) L. D. Tsendin. 10, 1514 (1966) [35, 1972 (1965)]

Interaction Between High-Frequency and Ion Acoustic Waves in a Plasma. (E) V. D. Fedorchenko, V. I. Muratov, and B. N. Rutkevich. 10, 1549 (1966) [35, 2021 (1965)]

Announcements

Competition for the A. S. Popov Gold Medal and for the A. S. Popov Prize. 10, 144 (1965) [35, 176 (1965)]

Antennas

Coupled Annular Slot Antennas Mounted on a Prolate Spheroid. (T) D. A. Duplenkov and A. N. Kovalenko. 10, 1109 (1966) [35, 1428 (1965)]

Apparatus

Current Oscillations in a Thermoelectron Energy Converter. (T/E) I. P. Stakhanov and A. S. Stepanov. 10, 100 (1965) [35, 132 (1965)]

The Klystron Method of Generating Nano- and Subnanosecond Video-pulses. I. (T) A. D. Sushkov and V. A. Meos. 10, 565 (1965) [35, 723 (1965)]

The Klystron Method of Generating Nano- and Subnanosecond Video-pulses. II. (E) A. D. Sushkov and V. A. Meos. 10, 576 (1965) [35, 739 (1965)]

On the Most Efficient Regimes for Operation of a Thermionic Converter. (T/E) G. A. Dyuzhev, A. M. Martsinovskiĭ, G. E. Pikus, and V. G. Yur'ev. 10, 895 (1965) [35, 1160 (1965)]

Thermionic Converter Operation in the Presence of Krypton. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1318 (1966) [35, 1707 (1965)]

Cesium Thermionic Converter Operation in the Presence of Xenon. (E) E. S. Bekmukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev. 10, 1320 (1966) [35, 1709 (1965)]

Azimuthal Distribution of the End Current in a Magnetron. (E) G. G. Sominskiĭ. 10, 1377 (1966) [35, 1782 (1965)]

Design of an Accelerating Tube with Inclined Electrodes. (T) V. S. Kuznetsov and R. P. Fidel'skaya. 10, 1537 (1966) [35, 2004 (1965)]

Theory of a Spherical Probe for Intermediate and High Pressures. (T) Yu. M. Kagan and V. I. Perel'. 10, 1586 (1966) [35, 2069 (1965)]

Toroidal Device for Adiabatic Plasma Compression. (E) V. E. Golant, M. G. Kaganskiĭ, V. A. Ovsyannikov, and A. D. Piliya. 10, 1669 (1966) [35, 2176 (1965)]

Atomic Physics

A Study of the Reflection of the Atomic Beams of Potassium Rubidium, and Cesium from a Quartz Plate. (E) L. L. Myasnikov, L. D. Raigorodskiĭ, and B. A. Finagin. 10, 421 (1965) [35, 542 (1965)]

Lorentz Ionization of Highly Excited Hydrogen Atoms. (R) N. V. Fedorenko, V. A. Ankudinov, and R. N. Il'in. 10, 461 (1965) [35, 585 (1965)]

The Production of an Intense Pulsed Beam of Accelerated Tritium Atoms. (E/T) A. S. Knyazyatov and V. V. Mal'tsev. 10, 805 (1965) [35, 1047 (1965)]

Chemical Physics

An Investigation of Chemisorption of Carbon Monoxide on Polycrystalline Tungsten Filaments by the Flash Method. (E) Yu. K. Ustinov, V. N. Ageev, and N. I. Ionov. 10, 851 (1965) [35, 1106 (1965)]

Theory of the Periodic System of Elements Under High Pressure. I. (T) S. V. Izmailov and G. A. Shul'man. 10, 1455 (1966) [35, 1889 (1965)]

Study of the Chemisorption of Nitrogen on Polycrystalline Tungsten Filaments by the Flash Method. (E) Yu. K. Ustinov and N. I. Ionov. 10, 1607 (1966) [35, 2099 (1965)]

Investigation of the Chemisorption of Oxygen on Polycrystalline Tungsten by the Flash Method. (T/E) V. N. Ageev and N. I. Ionov. 10, 1614 (1966) [35, 2109 (1965)]

Crystalline State

The Barkhausen Effect in a Nickel-Cobalt Ferrite Single Crystal. (E) N. M. Salanskii, A. I. Drokin, R. P. Smolin, and S. Sh. Gendelev. 10, 276 (1965) [35, 345 (1965)]

On the Precision of Determining Fine-Structure Characteristics by the X-Ray Method. (T) A. S. Kagan and V.M. Snovidov. 10, 284 (1965) [35, 355 (1965)]

Mass-Spectrometer Determination of the Heat of Vaporization of Atoms and Positive Ions in Sublimation of Polycrystalline Rhenium, Tungsten, Tantalum, and Molybdenum. (E) É. Ya. Zandberg, N. I. Ionov, and A. Ya. Tontegode. 10, 1164 (1966) [35, 1504 (1965)]

Dielectrics and Dielectric Phenomena

Observations on "The Dielectric Constant of a Medium with Inhomogeneous Spherical Inclusions" by L. D. Stepin [1]. (T)B. V. Vanin. 10, 746 (1965) [35, 969 (1965)]

Reply to the Remarks of B. V. Vanin [1]. (T) L. D. Stepin. 10, 748 (1965) [35, 971 (1965)]

Dielectric Permeability of a Medium with Nonuniform Ellipsoidal Inclusions. (T) L. D. Stepin. 10, 768 (1965) [35, 996 (1965)]

Nanosecond Time Development of a Pulsed Discharge at a Dielectric-Vacuum Interface. (E) S. P. Bugaev and G. A. Mesyats. 10, 930 (1966) [35, 1202 (1965)]

Investigation of Hybrid Waves in a Circular Waveguide Partially Filled with Dielectric. (T/E) V. A. Vagin and V. I. Kotov. 10, 987 (1966) [35, 1273 (1965)]

Experimental Investigation of Mechanical Excitation of Phosphorus Suspensions in Solid Dielectrics. (E) O. A. Myazdrikov, O. S. Nikolaev, B. N. Pustoshkin, and V. M. Trofimov. 10, 1022 (1966) [35, 1319 (1965)]

Excitation of Dielectric Bodies of Revolution. (T) E. N. Vasil'ev and L. B. Materikova. 10, 1401 (1966) [35, 1817 (1965)]

An Investigation of the Electric Strength of Some Liquid Dielectrics Subject to Nanosecond Voltage Pulses. (E) N. S. Rudenko and V. I. Tsvetkov. 10, 1417 (1966) [35, 1840 (1965)]

Development of a Discharge in a Liquid Dielectric with Ramp Function Voltage Pulses. (E) V. Ya. Ushakov. 10, 1430 (1966) [35, 1844 (1965)]

Glow Discharge Between Coaxial Dielectric Cylinders in Axial Electric and Radial Magnetic Fields. (T) I. B. Chekmarev. 10, 1519 (1966) [35, 1978 (1965)]

Effect of a Magnetic Field on the Dielectric Constant of Process Water. (E) D. M. Umanskii. 10, 1720 (1966) [35, 2245 (1965)]

Diffusion

Instability and Anamolous Diffusion in a Potassium Plasma. (E) N. S. Buchel'nikova, A. M. Kudryavtsev, and R. A. Salimov. 10, 53 (1965) [35, 72 (1965)]

Investigation of Diffusion Slip by Means of the Baroeffect. (T/E) P. V. Volobuev and P. E. Suetin. 10, 269 (1965) [35, 336 (1965)]

Note on the Diffusion Theory of the Positive Column. (T/E) L. E. Belousova. 10, 369 (1965) [35, 475 (1965)]

Diffusion Theory of a Beam-Generated Plasma. (T/E) S. M. Levitskii and I. P. Shashurin. 10, 915 (1966) [35, 1182 (1965)]

Instability in an Oscillating-Electron Discharge. II. Anomalous Diffusion of the Plasma. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, I. K. Nikol'skii, and I. Yu. Adamov. 10, 1088 (1966) [35, 1401 (1965)]

Asymptotic Solution of a Diffusion Problem and Application to the Theory of Storage Rings. (T) A. S. Bakai, G. Ya. Lyubarskii, and V. V. Rozhkov. 10, 1183 (1966) [35, 1525 (1965)]

Coefficients of Isobaric-Isothermal Diffusion of Certain Gases. (E) N. D. Kosov and L. I. Kurlapov. 10, 1623 (1966) [35, 2120 (1965)]

Thermal Diffusion Effect. I. (E/T) L. S. Kotousov. 10, 1698 (1966) [35, 2215 (1965)]

Thermal Diffusion Effect. II. (E/T) L. S. Kotousov. 10, 1702 (1966) [35, 2221 (1965)]

Elasticity and Plasticity

Effect of Pressure on the Plasticity of Metals. (E) L. D. Livshits, Yu. N. Ryabinin, and B. I. Beresnev. 10, 278 (1965) [35, 348 (1965)]

Investigation of Deformation of Single-Turn Solenoids in a Relatively Slowly Growing High-Intensity Magnetic Field. (E) V. P. Gordienko and G. A. Shneerson. 10, 834 (1965) [35, 1084 (1965)]

Electrical Discharges

Investigation of the Deionization of Plasma at Atmospheric Pressure, Using Super-High Frequencies. (E/T) S. I. Andreev and B. M. Sokolov. 10, 75 (1965) [35, 101 (1965)]

Electrical Breakdown Through a Gap in Glass in an Atmosphere of Cesium Vapor. (E) Yu. K. Gus'kov, S. Ya. Lebedev, and V. G. Rodionova. 10, 123 (1965) [35, 156 (1965)]

Electron Energy Distribution in the Positive Column of a Discharge in a Mixture of Mercury and Inert Gases. (E) V. B. Khalfin. 10, 127 (1965) [35, 160 (1965)]

The Anomalous Nature of the Maximum Current Boundary in a Magnetron Generator. (E) G. G. Sominskii. 10, 129 (1965) [35, 162 (1965)]

The Theory of the Low Voltage Arc in Cesium. (T) F. G. Baksht and B. Ya. Moizhes. 10, 214 (1965) [35, 266 (1965)]

The Nature of the Positive Volt-Ampere Characteristics of a Low-Pressure Electric Discharge. (E) B. N. Klyarfel'd and L. G. Guseva. 10, 244 (1965) [35, 306 (1965)]

Pulse Characteristics of Modified Penning Discharge Tubes. (E) Yu. E. Kreindel' and É. N. Fakhrutdinov. 10, 249 (1965) [35, 312 (1965)]

Ion-Current Distribution in Penning Discharge Tubes. (E) Yu. E. Kreindel'. 10, 252 (1965) [35, 315 (1965)]

Spark Pulse Peaking Devices with Low Sensitivity to Pulse Height. (E) G. A. Mesyats. 10, 400 (1965) [35, 516 (1965)]

Temperature and Density Distribution in a High-Temperature Steady-State Arc. (T) S. G. Alikhanov and S. P. Ivaniya. 10, 433 (1965) [35, 557 (1965)]

The Effect of a Normal Magnetic Field Upon a Low-Voltage Arc Discharge in Cesium Vapors. (E) I. I. Bondarenko, Yu. K. Gus'kov, and M. A. Lebedev. 10, 586 (1965) [35, 751 (1965)]

Development of the Channel of a Surface Spark Discharge. (E) E. V. Daniel'. 10, 600 (1965) [35, 769 (1965)]

Alteration of the Discharge Mechanism in Air as the Spacing Between Planar Electrodes is Increased at Atmospheric Pressure. (E/T) G. N. Aleksandrov. 10, 673 (1965) [35, 875 (1965)]

Entry of Electrode Material into a Spark Discharge. (E/T) L. S. Palatnik and A. A. Levchenko. 10, 680 (1965) [35, 883 (1965)]

Nanosecond Time Development of a Pulsed Discharge at a Dielectric-Vacuum Interface. (E) S. P. Bugaev and G. A. Mesyats. 10, 930 (1966) [35, 1202 (1965)]

A High-Pressure Electrodeless Discharge. I. (E) R. V. Mitin and K. K. Pryadkin. 10, 933 (1966) [35, 1205 (1965)]

Pulsed Heating of a High-Pressure Arc in Argon. I. (E) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 937 (1966) [35, 1210 (1965)]

Pulsed Heating of a High-Pressure Arc in Argon. II. (E/T) R. V. Mitin, Yu. R. Knyazev, V. I. Petrenko, and E. S. Borovik. 10, 943 (1966) [35, 1218 (1965)]

Mechanism of Corona-to-Spark Transition in Long Air Gaps. (T/E) G. N. Aleksandrov. 10, 948 (1966) [35, 1225 (1965)]

Energy Release in a High-Current Vacuum Discharge. (E) B. A. Osadin. 10, 952 (1966) [35, 1230 (1965)]

Effect of Pre-Ionization of a Gas on Energy Redistribution in a Spark Discharge. (E/T) G. M. Meshcheryakov. 10, 957 (1966) [35, 1236 (1965)]

Triggering Mechanism of a High-Vacuum Discharge in Crossed Electric and Magnetic Fields. (E/T) É. M. Reikhrudel' and É. P. Sheretov. 10, 972 (1966) [35, 1255 (1965)]

Formation of a Spark Channel in Air. (E) S. I. Andreev and B. M. Sokolov. 10, 1003 (1966) [35, 1295 (1965)]

Development of a Spark Discharge. I. (T/E) S. I. Andreev and B. I. Orlov. 10, 1097 (1966) [35, 1411 (1965)]

Effect of a Magnetic Field on the Parameters of a High-Frequency Discharge. (E) S. D. Vagner and N. A. Krylov. 10, 1105 (1966) [35, 1423 (1965)]

Positive Column in the Inverted Homopolar. (T) É. M. Drobyshevskii and I. B. Chekmarev. 10, 1206 (1966) [35, 1558 (1965)]

On the Theory of the Low-Voltage Arc in Cesium. II. (T) B. Ya. Moizhes, F. G. Baksht, and M. G. Melikiya. 10, 1252 (1966) [35, 1621 (1965)]

Determination of the Conductivity of a High-Frequency Induction Discharge in Argon by Calorimetric and Spectral Methods. (E) S. V. Dresvin, A. V. Donskoi, and V. M. Gol'dfarb. 10, 1270 (1966) [35, 1646 (1965)]

Discharge Phenomena in Liquids. (E/T) I. S. Stekol'nikov and V. Ya. Ushakov. 10, 1307 (1966) [35, 1692 (1965)]

The Bridge Stage of Electrode Erosion in Switching 1000–5000-A Currents in Vacuum. (E/T) V. S. Potokin, V. I. Rakhovskii, and V. N. Tikhonov. 10, 1424 (1966) [35, 1848 (1965)]

Investigation of Cathode Spots in a Pulsed Discharge Between Parallel Electrodes. (E) R. Basharov, E. N. Gavrilovskaya, O. A. Malkin, and E. S. Trekhov. 10, 1428 (1966) [35, 1853 (1965)]

Theory of the Volt-Ampere Characteristic of a High-Pressure Nonstationary Arc Column. (T) S. M. Krizhanskii. 10, 1450 (1966) [35, 1882 (1965)]

Radial Dependence of the Electron Velocity Distribution Function in a Positive Column. (E/T) Yu. M. Kagan and V. M. Milenin. 10, 1470 (1966) [35, 1907 (1965)]

Ion Retardation in an Arc Discharge in a Magnetic Field. (T/E) V. B. Glasko, A. G. Sveshnikov, N. N. Semashko, and A. V. Timofeev. 10, 1596 (1966) [35, 2083 (1965)]

Cathode Emission Mechanism in an Arc Discharge. (T) V. I. Rakhovskii. 10, 1707 (1966) [35, 2228 (1965)]

A Contribution to the Theory of the Electric Arc. (T) V. S. Kolomoitsev. 10, 1725 (1966) [35, 2249 (1965)]

On V. S. Kolomoitsev's Letter "A Contribution to the Theory of the Electric Arc." (T) I. A. Krinberg. 10, 1727 (1966) [35, 2251 (1965)]

Electrical Properties

The Nature of the Positive Volt-Ampere Characteristics of a Low-Pressure Electric Discharge. (E) B. N. Klyarfel'd and L. G. Guseva. 10, 244 (1965) [35, 306 (1965)]

The Rectification of Current by an Electroluminescent Condenser. (E/T) Yu. P. Chukova and M. V. Fok. 10, 595 (1965) [35, 762 (1965)]

A Cylinder in a Field Generated by Current-Carrying Conductors. (T) A. A. Fomin. 10, 758 (1965) [35, 983 (1965)]

Radial Distribution of Electrical Conductivity in an Ionized Gas Jet. (T/E) S. M. Paviov and S. A. Shevchenko. 10, 978 (1966) [35, 1262 (1965)]

Investigation of the Double Electrical Layer in a Plasma. (E) E. A. Bakulin, E. V. Stepin, and V. V. Shcherbinina. 10, 1102 (1966) [35, 1419 (1965)]

Infinite Cylinder in the Field of a Coaxial System of Windings. (T) A. A. Fomin. 10, 1116 (1966) [35, 1438 (1965)]

Impedance of a Diode Filled with a Rarefied Plasma. (T) F. G. Baksht. 10, 1140 (1966) [35, 1471 (1965)]

Non-Maxwellian Gas Diode. (T) É. L. Nagaev. 10, 1261 (1966) [35, 1634 (1965)]

An Investigation of the Electric Strength of Some Liquid Dielectrics Subject to Nanosecond Voltage Pulses. (E) N. S. Rudenko and V. I. Tsvetkov. 10, 1417 (1966) [35, 1840 (1965)]

Development of a Discharge in a Liquid Dielectric with Ramp Function Voltage Pulses. (E) V. Ya. Ushakov. 10, 1420 (1966) [35, 1844 (1965)]

The Bridge Stage of Electrode Erosion in Switching 1000–5000-A Currents in Vacuum. (E/T) V. S. Potokin, V. I. Rakhovskii, and V. N. Tikhonov. 10, 1424 (1966) [35, 1848 (1965)]

Volt-Ampere Characteristics of a Thermionic Converter. (E) G. A. Dyuzhev, A. M. Martsinovskii, G. E. Pikus, B. I. Tsirkel', and V. G. Yur'ev. 10, 1575 (1966) [35, 2054 (1965)]

Frequency Dependence of Current Rectified by an Electroluminescent Condenser. (E) M. V. Fok and Yu. P. Chukova. 10, 1583 (1966) [35, 2065 (1965)]

Electromagnetic Waves and Fields

Propagation of Low-Energy Electromagnetic Waves in a Structural Waveguide and the Radiation from a Charge Traversing Along Its Axis. (T) O. A. Kolpakov, V. I. Kotov, and Om-San-Kha. 10, 18 (1965) [35, 26 (1965)]

Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. I. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

Resonance Interaction of a Plasmoid with an Electromagnetic Wave in a Waveguide. (E) B. P. Kononov. 10, 33 (1965) [35, 47 (1965)]

Acceleration of Plasma by an H_{11}-Type Electromagnetic Wave in a Circular Waveguide. (E) B. P. Kononov, K. A. Sarksyan, V. A. Silin, and L. É. Tsopp. 10, 36 (1965) [35, 51 (1965)]

Approximate Method of Solving the Integral Equation for the Diffraction of Electromagnetic Waves by a Band of Finite Width. (T) G. Ya. Popov. 10, 305 (1965) [35, 381 (1965)]

The Equations of Motion of an Electron in the Field of a Travelling Electromagnetic Wave, Including Nonlinearities of the Second Order. (T) G. I. Zhileiko and B. A. Snedkov. 10, 377 (1965) [35, 486 (1965)]

Traveling Waves in a Nonlinear Electromagnetic Medium. (T) V. B. Krasovitskii and V. I. Kurilko. 10, 454 (1965) [35, 580 (1965)]

Transformation of Waves at a Plasma–Vacuum Boundary. (T) Ts. D. Loladze. 10, 456 (1965) [35, 582 (1965)]

Conversion of Two Transverse Waves Into a Longitudinal Wave in a Collisionless Plasma. (T) I. S. Danilkin. 10, 524 (1965) [35, 667 (1965)]

Motion of Charged Particles in Axisymmetric Electromagnetic Fields with a Median Plane. (T) S. Ya. Yavor. 10, 719 (1965) [35, 935 (1965)]

Electromagnetic Excitation of a Spherical Radially Stratified Medium. (T) D. M. Sazonov and N. Ya. Frolov. 10, 763 (1965) [35, 990 (1965)]

Attenuation of Waves Propagating in a Bounded Plasma Across a Magnetic Field. (T) A. N. Kondratenko. 10, 781 (1965) [35, 1015 (1965)]

Electromagnetic Probing of the Antarctic Ice Sheet. (E) V. V. Vogorodskii, V. N. Rudakov, and V. A. Tyul'pin. 10, 886 (1965) [35, 1150 (1965)]

Kinetic Theory of Electromagnetic Waves in a Plasma Layer. (T) A. N. Kondratenko. 10, 1198 (1966) [35, 1546 (1965)]

Frequency Doubling in Reflection of a Wave from a Plasma Boundary. (T) Yu. R. Alanakyan. 10, 1202 (1966) [35, 1552 (1965)]

Plasma Entrainment by a Rotating Electromagnetic Field. (T) V. P. Sidorov and T. R. Soldatenkov. 10, 1354 (1966) [35, 1749 (1965)]

Motion of a Charged Particle in the Field of a Slow Plane Wave. (T) A. G. Bosch-Osmolovskii. 10, 1360 (1966) [35, 1757 (1965)]

Cerenkov Radiation from a Charge in a Cold Plasma. (T) V. N. Kurdyumov. 10, 1370 (1966) [35, 1771 (1965)]

Diffraction of Plane Waves by a Double Grating Consisting of Narrow Strips. (T/E) G. Sh. Kevanishvili and D. K. Kvavadze. 10, 1389 (1966) [35, 1799 (1965)]

Propagation of Electromagnetic Waves in a Ferrite Inflector. (T) A. M. Shenderovich. 10, 1407 (1966) [35, 1825 (1965)]

Bremsstrahlung from a Solid Target in a Plasma. (T) V. F. Aleksin and V. A. Suprunenko. 10, 1465 (1966) [35, 1902 (1965)]

Structure of a Grid-Diffracted Field. (E/T) V. A. Siyusarskii. 10, 1523 (1966) [35, 1984 (1965)]

Solution of the Equations of Motion of Nonrelativistic Charged Particles in a Certain Type of Alternating Electromagnetic Field. (T) L. G. Glikman, V. M. Kel'man, and E. M. Yakushev. 10, 1532 (1966) [35, 1997 (1965)]

Electromagnetic Radiation from a Magnetized Plasma Traversed by an Electron Beam. (E) V. E. Golant, A. P. Zhilinskii, I. F. Liventseva, and I. E. Sakharov. 10, 1559 (1966) [35, 2034 (1965)]

Kinetic Theory of the Propagation of Electromagnetic Waves Across a Plasma Layer. I. (T) A. N. Kondratenko and V. I. Miroshnichenko. 10, 1652 (1966) [35, 2154 (1965)]

Calculation of a Low-Frequency Electromagnetic Field in Coordinates for which Laplace's Equation is Separable. (T) D. B. Gurvich and E. A. Svyadoshch. 10, 1657 (1966) [35, 2160 (1965)]

Electron and Ion Beams

Producing Short Electron Bunches in the Linear Accelerator. (T) E. K. Ostrovskii. 10, 232 (1965) [35, 290 (1965)]

Effect of Loading by the Beam on the Shunt Resistance of Accelerating Systems in Electron Cyclical Accelerators. (T) A. N. Didenko and G. P. Fomenko. 10, 235 (1965) [35, 293 (1965)]

The Effect of the Area Change Rule on the Current Intensity in a One-Dimensional Electron Beam. (T) Yu. S. Ryabinkin. 10, 338 (1965) [35, 428 (1965)]

Acceleration of Ions in Plasma Formed when the Current is Interrupted by Contacts Placed in Vacuum. (E) M. A. Tyulina. 10, 396 (1965) [35, 511 (1965)]

Investigation of an Electron Beam from an Annular Gun. (E/T) L. I. Minenko and G.P. Fomenko. 10, 551 (1965) [35, 705 (1965)]

Nonlinear Theory of Low-Frequency Oscillations Excited in a Plasma by an Ion Beam. (T) D. G. Lominadze and V. I. Shevchenko. 10, 667 (1965) [35, 865 (1965)]

Determination of Collision Cross Sections of Electrons with Atoms and Molecules of Certain Gases by a Double-Beam Radio Probe Method. (E) G. I. Kozlov. 10, 690 (1965) [35, 895 (1965)]

Effect of "Images" in Storage Rings. (T) I. A. Shukeilo. 10, 698 (1965) [35, 905 (1965)]

On the Use of Relativistic Electron Beams for Plasma Investigation. (T) G. I. Zhileiko and S. I. Baskakov. 10, 794 (1965) [35, 1035 (1965)]

Emission Properties of the Plasma of Vacuum Sparks. I. Ions Beams. (E) K. V. Suladze and A. A. Plyutto. 10, 1006 (1966) [35, 1298 (1965)]

Formation of Plasma in the Development of a Beam Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, and I. F. Kharchenko. 10, 1064 (1966) [35, 1372 (1965)]

Time Characteristics of the Microwave Oscillations in the Development of a Beam-Plasma Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, L. I. Bolotin, and I. F. Kharchenko. 10, 1069 (1966) [35, 1378 (1965)]

Interaction of a Charged-Particle Beam with a Bounded Plasma. (T) N. P. Giorgadze and D. G. Lominadze. 10, 1349 (1966) [35, 1743 (1965)]

Minimum-Length Electron Bunches in a Klystron Buncher with Space-Charge Taken Into Account. (T/E) V. A. Galkov and B. A. Snedkov. 10, 1367 (1966) [35, 1767 (1965)]

Mass-Spectrometer Study of a Low-Pressure Positive-Ion Source. (E) O. I. Ekhichev, G. N. Zinchenko, N. S. Zinchenko, I. M. Karnaukhov, and R. P. Slabospitskii. 10, 1461 (1966) [35, 1897 (1965)]

The Passage of a Charged-Particle Beam Through a Plasma. (T) V. N. Tsytovich and V. D. Shapiro. 10, 1485 (1966) [35, 1925 (1965)]

Stability of an Ion Beam Injected into a Plasma Across a Magnetic Field. (T) A. B. Mikhailovskii and É. A. Pashitskii. 10, 1507 (1966) [35, 1960 (1965)]

Electromagnetic Radiation from a Magnetized Plasma Traversed by an Electron Beam. (E) V. E. Golant, A. P. Zhilinskii, I. F. Liventseva, and I. E. Sakharov. 10, 1559 (1966) [35, 2034 (1965)]

Focusing of a High-Intensity Electron Beam in an Accelerating Tube. (T) I. N. Meshkov and B. V. Chirikov. 10, 1688 (1966) [35, 2202 (1965)]

Solution of the Equations of Motion in Traveling-Wave Electron Accelerators. (T) G. I. Zhileiko. 10, 1715 (1966) [35, 2239 (1965)]

Electron and Ion Emission and Absorption

Emission of Positive and Negative Molecular Ions from Heated Surfaces. (E) I. N. Bakulina, É. Ya. Zandberg, and N. I. Ionov. 10, 437 (1965) [35, 562 (1965)]

The Anisotropy in the Ion-Electron Emission Coefficient of a Single Crystal of Copper. (E) E. S. Mashkova and V. A. Molchanov. 10, 449 (1965) [35, 575 (1965)]

Dissociation of Molecular Ions Resulting from the Interaction with Surfaces of Solids. (E) V. A. Molchanov and V. Soshka. 10, 741 (1965) [35, 963 (1965)]

Determination of Some Parameters of an Electron-Ion Oscillatory Discharge. (E) M. I. Korsunskii and É. N. Gorbenko. 10, 923 (1966) [35, 1193 (1965)]

An Investigation of Electron Loss from Traps with Spatially Periodic Helical Magnetic Fields. (E) R. A. Demirkhanov, Yu. V. Kursanov, D. G. Baratov, and G. V. Kharin. 10, 968 (1966) [35, 1250 (1965)]

Some Properties of an Oscillatory Electron-Ion Discharge. (E) M. I. Korsunskii and É. N. Gorbenko. 10, 981 (1966) [35, 1265 (1965)]

Intrinsic Thermionic Emission of Lanthanum Hexaboride and Surface Ionization of Cesium Atoms on Lanthanum Hexaboride. (E) É. Ya. Zandberg and V. I. Paleev. 10, 1014 (1966) [34, 1308 (1965)]

Sorption of Argon Ions by Titanium Films. (E) G. F. Ivanovskii and T. D. Radzhabov. 10, 1017 (1966) [35, 1312 (1965)]

Thermionic Emission Constants of Molybdenum, Tantalum, and Tungsten Wires. (E) É. Ya. Zandberg and A. Ya. Tontegode. 10, 1162 (1966) [35, 1501 (1965)]

Effect of Gases on Thermionic Emission of Platinum and Tungsten. (E) L. P. Rekova, Ya. M. Fogel', and A. P. Aleksandrov. 10, 1267 (1966) [35, 1642 (1965)]

Bolometer Measurement of Emission from Argon Ionized by a Shock Wave. (E) Yu. N. Redkoborodyi and V. I. Fedulov. 10, 1275 (1966) [35, 1652 (1965)]

Adsorption Properties of Type A Zeolites at Liquid-Nitrogen Temperatures. (E) V. M. Lunev and A. A. Romanov. 10, 1287 (1966) [35, 1666 (1965)]

Thermionic Emission of CeC_2. (E) Yu. B. Paderno, V. S. Fomenko, I. A. Podchernyaeva, and G. N. Makarenko. 10, 1434 (1966) [35, 1860 (1965)]

Ion Retardation in an Arc Discharge in a Magnetic Field. (T/E) V. B. Glasko, A. G. Sveshnikov, N. N. Semashko, and A. V. Timofeev. 10, 1596 (1966) [35, 2083 (1965)]

Electron and Ion Optics

Possibility of Measuring the Breadth of the Domain Boundary in Ferromagnetics by Means of an Electron Mirror Microscope. (E) R. D. Ivanov. 10, 110 (1965) [35, 145 (1965)]

Use of the Effective-Potential Method in Relativistic Electron Optics. (T) A. M. Strashkevich. 10, 152 (1965) [35, 184 (1965)]

Motion of Relativistic Charged Particles in Two-Dimensional Electron-Optical Systems with a Median Plane. (T) M. Sziladi and S. Ya. Yavor. 10, 319 (1965) [35, 402 (1965)]

Electrostatics

Focusing of Wide Beams in the Fields of Electrostatic Cylindrical Lenses and Transaxial Systems. (T) A. M. Strashkevich. 10, 147 (1965) [35, 177 (1965)]

Achromatic Electromagnetic Quadrupole Lens with Noncoincident Axial Field Distributions. II. (T/E) E. V. Shpak and S. Ya. Yavor. 10, 727 (1965) [35, 947 (1965)]

Two Problems in Electrostatics for Fields with Cylindrical Boundaries. (T) L. É. Tsyrlin. 10, 752 (1965) [35, 973 (1965)]

Correction of Angular Aberrations in the Two-Sector Electrostatic Analyzer. (E) V. V. Zashkvara, M. I. Korsunskii, and O. S. Kosmachev. 10, 818 (1965) [35, 1063 (1965)]

Electrostatic Field of a Pair of Thin Spherical Shells (Axially-Symmetric Problem). (T) A. N. Rukhovets and Ya. S. Uflyand. 10, 1188 (1966) [35, 1532 (1965)]

On Electrostatic Charge Separation in a Plasma in Thermodynamic Equilibrium. (T) M. V. Samokhin. 10, 1332 (1966) [35, 1720 (1965)]

Solution of Some Electrostatic Problems Concerning the Field of an Open Spherical Condenser. (T) A. N. Rukhovets. 10, 1527 (1966) [35, 1989 (1965)]

Ferromagnetic Materials and Ferrites

Possibility of Measuring the Breadth of the Domain Boundary in Ferromagnetics by Means of an Electron Mirror Microscope. (E) R. D. Ivanov. 10, 110 (1965) [35, 145 (1965)]

Interaction of Charged Particles and a Gyrotropic Ferrite. (T/E) É. D. Gazazyan and O. S. Mergelyan. 10, 419 (1965) [35, 539 (1965)]

Deformation of Intense Waves Traversing a Ferrite Discontinuity in a Transmission Line. (E) G. A. Mesyats and R. B. Baksht. 10, 685 (1965) [35, 889 (1965)]

Ferrite Switch for Intense Narrow Video Pulses. (E) G. A. Mesyats. 10, 1302 (1966) [35, 1685 (1965)]

Propagation of Electromagnetic Waves in a Ferrite Inflector. (T) A. M. Shenderovich. 10, 1407 (1966) [35, 1825 (1965)]

Study of Magnetic States of Uniaxial Ferromagnetic Films on the Basis of the Rotation Model. (T) V. F. Udalov. 10, 1413 (1966) [35, 1834 (1965)]

Fluid Dynamics

Axially Symmetric Flow of a Perfectly Conducting Gas Around a Corner. (T) A. P. Shubin. 10, 321 (1965) [35, 405 (1965)]

Turbulent Flow of a Charged Liquid in a Plane Nonconducting Tube. (T) G. N. Kopylov. 10, 1041 (1966) [35, 1337 (1965)]

Flow of a Supersonic Stream of Nonequilibrium-Dissociating Air Around Obtuse Bodies. (E) V. K. Dushin and Yu. P. Lun'kin. 10, 1133 (1966) [35, 1461 (1965)]

Supersonic Hydrogen Jet in Vacuum. (E) V. B. Yuferov, V. A. Kovalenko, E. I. Skibenko, and F. I. Busol. 10, 1177 (1966) [35, 1522 (1965)]

On the Self-Consistent Hydrodynamic Problem of the Motion of Relativistic Electrons in a Homogeneous Magnetic Field. (T) S. B. Rubin. 10, 1351 (1966) [35, 1746 (1965)]

Vortex Tubes and the Vortex Effect (Ranque Effect). (E/T) A. I. Gulyaev. 10, 1441 (1966) [35, 1869 (1965)]

Ionization

Study of the Stationary Flow of Weakly Ionized Plasma in the Homopolarnik. (E/T) K. V. Donskoi and É. M. Drobyshevskii. 10, 62 (1965) [35, 84 (1965)]

Transformation of a Longitudinal High-Frequency Field by an Ion-Sound Spectrum. (T) I. A. Daneliya. 10, 142 (1965) [35, 174 (1965)]

Ion-Current Distribution in Penning Discharge Tubes. (E) Yu. E. Kreindel'. 10, 252 (1965) [35, 315 (1965)]

Surface Ionization as Affected by Migration of Adatoms Along an Irregular Surface. (T) N. D. Potekhina. 10, 254 (1965) [35, 317 (1965)]

Positive Surface Ionization of Potassium on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Ptitsyn. 10, 410 (1965) [35, 528 (1965)]

Effect of Electric Field on Surface Ionization on Metals. (T/E) L. N. Dobretsov. 10, 416 (1965) [35, 535 (1965)]

Lorentz Ionization of Highly Excited Hydrogen Atoms. (R) N. V. Fedorenko, V. A. Ankudinov, and R. N. Il'in. 10, 461 (1965) [35, 585 (1965)]

Surface Ionization of Li, Na, K, and Cs Atoms and LiCl, KCl, and CsCl Molecules on Polycrystalline Rhenium. (E/T) É. Ya. Zandberg and A. Ya. Tontegode. 10, 858 (1965) [35, 1115 (1965)]

Surface Ionization of Molecules of Alkali Halide Salts. (T/E) G. M. Pyatigorskii. 10, 867 (1965) [35, 1127 (1965)]

Temperature Hysteresis in Positive Surface Ionization and the Work Function of a Homogeneous Emitter. (E) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 871 (1965) [35, 1132 (1965)]

Positive Surface Ionization of Na on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Ptitsyn. 10, 893 (1965) [35, 1158 (1965)]

Effect of Pre-Ionization of a Gas on Energy Redistribution in a Spark Discharge. (E/T) G. M. Meshcheryakov. 10, 957 (1966) [35, 1236 (1965)]

Intrinsic Thermionic Emission of Lanthanum Hexaboride and Surface Ionization of Cesium Atoms on Lanthanum Hexaboride. (E) É. Ya. Zandberg and V. I. Paleev. 10, 1014 (1966) [34, 1308 (1965)]

Optimum Conditions and Thresholds for Positive Surface Ionization. (E/T) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 1156 (1966) [35, 1493 (1965)]

Thermionic Emission Constants of Molybdenum, Tantalum, and Tungsten Wires. (E) É. Ya. Zandberg and A. Ya. Tontegode. 10, 1162 (1966) [35, 1501 (1965)]

Surface Ionization of LiCl on Rhenium. (T) N. D. Potekhina. 10, 1280 (1966) [35, 1658 (1965)]

Ionization of Gases by Alkali Ions. (E) I. P. Flaks, B. I. Kikiani, and G. N. Ogurtsov. 10, 1590 (1966) [35, 2076 (1965)]

Surface Ionization on Silicon. (T/E) É. Ya. Zandberg and V. I. Paleev. 10, 1602 (1966) [35, 2092 (1965)]

Simultaneous Ionization of Lithium Fluoride Molecules and Calcium, Neodymium, and Indium Atoms on a Tungsten Surface. (E) M. A. Mittsev. 10, 1621 (1966) [35, 2117 (1965)]

Liquids

Excitation of Magnetosonic Waves by Moving Radiators. (T) V. P. Dokuchaev and V. D. Logacheva. 10, 619 (1965) [35, 794 (1965)]

Turbulent Flow of a Charged Liquid in a Plane Nonconducting Tube. (T) G. N. Kopylov. 10, 1041 (1966) [35, 1337 (1965)]

Discharge Phenomena in Liquids. (E/T) I. S. Stekol'nikov and V. Ya. Ushakov. 10, 1307 (1966) [35, 1692 (1965)]

Magnetic Phenomena

Optical Properties of the Magnets Focusing the Atomic Beam into the Resonator of a Hydrogen Generator. (T) D. L. Kaminskii. 10, 106 (1965) [35, 140 (1965)]

The Barkhausen Effect in a Nickel-Cobalt Ferrite Single Crystal. (E) N. M. Salanskii, A. I. Drokin, R. P. Smolin, and S. Sh. Gendelev. 10, 276 (1965) [35, 345 (1965)]

Penetration of a Pulsed Magnetic Field into the Interior of a Cylindrical Screen. (T) M. G. Vitkov. 10, 324 (1965) [35, 410 (1965)]

Cyclotron Excitation of Magnetosonic Waves by a Stream of Charged Particles. (T/E) V. V. Angeleiko and A. B. Kitsenko. 10, 365 (1965) [35, 470 (1965)]

Effect of Asymmetry of the Interaction Space on Steady-State Characteristics of a Cylindrical Magnetron. (E) G. A. Levin, I. L. Verbitskii, V. I. Vigdorchik, V. I. Maksimov, and M. V. Mil'cho. 10, 403 (1965) [35, 519 (1965)]

Investigation of Faraday UHF Devices Under Variable Magnetization Conditions. (T/E) I. A. Deryugin, V. L. Strizhevskii, and P. S. Kuts. 10, 424 (1965) [35, 546 (1965)]

The Effect of a Normal Magnetic Field Upon a Low-Voltage Arc Discharge in Cesium Vapors. (E) I. I. Bondarenko, Yu. K. Gus'kov, and M. A. Lebedev. 10, 586 (1965) [35, 751 (1965)]

Excitation of Magnetosonic Waves by Moving Radiators. (T) V. P. Dokuchaev and V. D. Logacheva. 10, 619 (1965) [35, 794 (1965)]

Study of Some Characteristics of Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 640 (1965) [35, 823 (1965)]

Magnetic Moment of a Charged Particle Impinging on a Uniform Longitudinal Magnetic Field. (T) N. A. Khizhnyak. 10, 643 (1965) [35, 827 (1965)]

Magnetic Moment of a Plasmoid Entering a Uniform Longitudinal Magnetic Field. (T) N. A. Khizhnyak. 10, 647 (1965) [35, 833 (1965)]

Motion of a Plasmoid in the Magnetic Field of a Toroidal Solenoid. (T) N. A. Khizhnyak. 10, 655 (1965) [35, 847 (1965)]

Strong-Focusing Properties of a System of Opposed Magnetic Fields. (T) V. S. Zakharov and M. S. Rabinovich. 10, 702 (1965) [35, 910 (1965)]

Nonlinear Study of Spatial Focusing in Magnetic Focusing Systems with r^{-1} Fields. (T) A. F. Malov, V. A. Suzdalev, and E. P. Fedoseev. 10, 705 (1965) [35, 914 (1965)]

Rotating Magnetic Field and Surface Current of a Multiphase System with Tapered Poles. (T) R. S. Kuznetskii. 10, 889 (1965) [35, 1154 (1965)]

Concerning the Structure of Asymmetric Toroidal Magnetic Fields. (T) M. I. Graev, M. S. Mikhailova, and A. I. Morozov. 10, 920 (1966) [35, 1189 (1965)]

An Investigation of Electron Loss from Traps with Spatially Periodic Helical Magnetic Fields. (E) R. A. Demirkhanov, Yu. V. Kursanov, D. G. Baratov, and G. V. Kharin. 10, 968 (1966) [35, 1250 (1965)]

Compensation of Perturbations of a Helical Magnetic Field. (E/T) F. V. Karmanov and V. K. Mel'nikov. 10, 1074 (1966) [35, 1385 (1965)]

Effect of a Magnetic Field on the Parameters of a High-Frequency Discharge. (E) S. D. Vagner and N. A. Krylov. 10, 1105 (1966) [35, 1423 (1965)]

"Mixing" of Particles in a Magnetic Trap with a "Combined" Field. (T) B. I. Volkov, V. B. Glasko, A. G. Sveshnikov, and N. N. Semashko. 10, 1229 (1966) [35, 1590 (1965)]

Polarization of Plasma Moving in a Helical Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1232 (1966) [35, 1594 (1965)]

Polarization of Plasma Moving in a Toroidal Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1235 (1966) [35, 1598 (1965)]

Polarization of Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1238 (1966) [35, 1602 (1965)]

Singularities in Radiation Emitted by Point Dipoles Moving in Narrow Cavities in Magnetoactive Media. (T) K. A. Barsukov and V. N. Kadantsev. 10, 1241 (1966) [35, 1606 (1965)]

Aberration and Displacement of a Beam by a Fringe Field without Transverse Variation in Magnetic Prisms. (T) A. F. Malov. 10, 1249 (1966) [35, 1617 (1965)]

Pulse Excitation of a Magnetic Field in a Cylindrical Shield. (T) M. G. Vitkov. 10, 1380 (1966) [35, 1786 (1965)]

Study of Magnetic States of Uniaxial Ferromagnetic Films on the Basis of the Rotation Model. (T) V. F. Udalov. 10, 1413 (1966) [35, 1834 (1965)]

Radiation Due to Passage of a Magnetic Dipole Through a Cylindrical Cavity or a Waveguide with a Periodic Structure. (T) O. A. Kolpakov and V. I. Kotov. 10, 1649 (1966) [35, 2150 (1965)]

Magnetic Surfaces of a Stellarator with an $l = 2$ Winding. (E) M. S. Bereshetskii, S. E. Grebenshchikov, A. P. Popryadukhin, and I. S. Shpigel'. 10, 1662 (1966) [35, 2167 (1965)]

Characteristics of a Low-Pressure Discharge in a Transverse Magnetic Field. (E/T) N. A. Kervalishvili and A. V. Zharinov. 10, 1682 (1966) [35, 2194 (1965)]

Injection of Charged Particles into a Mirror System. (T/E) B. S. Akshanov, V. G. Marinin, A. I. Strel'tsov, and K. D. Sinel'nikov. 10, 1710 (1966) [35, 2232 (1965)]

Penetration of a Strong Pulsed Magnetic Field Into a Thin-Walled Cylinder Heated by Induced Current. (T) G. A. Shneerson. 10, 1712 (1966) [35, 2234 (1965)]

Effect of a Magnetic Field on the Dielectric Constant of Process Water. (E) D. M. Umanskii. 10, 1720 (1966) [35, 2245 (1965)]

Magnetohydrodynamics

The Characteristics of the Transverse Magnetic Field Effect on Turbulent Flow of Liquid Metal at Different Reynolds Numbers. (E) G. G. Branover and O. A. Lielausis. 10, 191 (1965) [35, 235 (1965)]

Transformation of Waves at a Plasma–Vacuum Boundary. (T) Ts. D. Loladze. 10, 456 (1965) [35, 582 (1965)]

Magnetohydrodynamic Waves in a Plasma Penetrated by a Stream of Charged Particles. (T) A. V. Bogdanov. 10, 625 (1965) [35, 803 (1965)]

Effect of Magnetic and Electric Fields on the Electron Temperature in an MHD Channel. (T) I. I. Shakhnov and I. B. Chekmarev. 10, 1054 (1966) [35, 1359 (1965)]

Experimental Study of the Initial Region of a Square Magnetohydrodynamic Channel Taking Account of the Inhomogeneity of the Magnetic Field in the Longitudinal Direction. (E) A. I. Khozhainov. 10, 1213 (1966) [35, 1568 (1965)]

Masers and Lasers

Diffraction Synchronization of Lasers. (T) N. G. Basov, É. M. Belenov, and V. S. Letokhov. 10, 845 (1965) [35, 1098 (1965)]

Ruby Laser Interferometric Measurement of Electron Concentration in a Plasma. (E) V. E. Mitsuk, V. I. Savoskin, and V. A. Chernikov. 10, 891 (1965) [35, 1156 (1965)]

Investigation of the High-Frequency Discharge in a Neon–Helium Laser. (E) N. I. Krindach, I. A. Silin-Bekchrin, L. N. Tunitskii, and E. M. Cherkasov. 10, 1297 (1966) [35, 1678 (1965)]

Use of Laser Radiation to Create a Strong Electron Source. (E) O. V. Bogdankevich, V. Yu. Sudzilovskii, and A. A. Lozhnikov. 10, 1573 (1966) [35, 2052 (1965)]

Theory of Coupled Optical Masers. (T) É. M. Belenov and V. S. Letokhov. 10, 1628 (1966) [35, 2126 (1965)]

Plasma Diagnostics by Light Scattering on Electrons. (R) G. M. Malyshev. 10, 1633 (1966) [35, 2129 (1965)]

Mass Spectrometry

The Quadrupole Mass Spectrometer and Its Use in Chemical and Isotopic Analysis. (R) A. É. Rafal'son. 10, 1 (1965) [35, 3 (1965)]

Use of a System with Retarding Potentials in Mass Spectrometry. (T/E) L. N. Gall' and N. K. Vasil'eva. 10, 1149 (1966) [35, 1483 (1965)]

Mass-Spectrometer Determination of the Heat of Vaporization of Atoms and Positive Ions in Sublimation of Polycrystalline Rhenium, Tungsten, Tantalum, and Molybdenum. (E) É. Ya. Zandberg, N. I. Ionov, and A. Ya. Tontegode. 10, 1164 (1966) [35, 1504 (1965)]

Mass-Spectroscopic Investigation of the Operation of a Halogen Leak-Detector. (E) V. I. Karpov, L. E. Levina, and L. D. Murav'eva. 10, 1283 (1966) [35, 1662 (1965)]

Mass-Spectrometer Study of a Low-Pressure Positive-Ion Source. (E) O. I. Ekhichev, G. N. Zinchenko, N. S. Zinchenko, I. M. Karnaukhov, and R. P. Slabospitskii. 10, 1461 (1966) [35, 1897 (1965)]

Mathematical Physics

Isothermal Nonstationary Gas Motion. (T) M. I. Chibisov. 10, 93 (1965) [35, 123 (1965)]

Approximate Method of Solving the Integral Equation for the Diffraction of Electromagnetic Waves by a Band of Finite Width. (T) G. Ya. Popov. 10, 305 (1965) [35, 381 (1965)]

The Equations of Motion of an Electron in the Field of a Travelling Electromagnetic Wave, Including Nonlinearities of the Second Order. (T) G. I. Zhileiko and B. A. Snedkov. 10, 377 (1965) [35, 486 (1965)]

Application of the Lorentz Lemma to Calculation of the Radiation Fields from Given Sources in Unbounded Media. (T) I. G. Kondrat'ev and V. I. Talanov. 10, 444 (1965) [35, 571 (1965)]

Calculation of a Low-Frequency Electromagnetic Field in Coordinates for which Laplace's Equation is Separable. (T) D. B. Gurvich and E. A. Svyadoshch. 10, 1657 (1966) [35, 2160 (1965)]

Molecular Physics

The Electrodynamic Method of Slowing Down Molecules. (T) V. S. Kazachok. 10, 882 (1965) [35, 1145 (1965)]

Thermal Dissociation of Sodium Chloride and Sodium Iodide Molecules on a Tungsten Surface. (E) N. I. Ionov and M. A. Mittsev. 10, 1436 (1966) [35, 1863 (1965)]

Nuclear Physics and Instrumentation

The Anisotropy in the Electron Energy Distribution in the Alpha Setup. (E) B. V. Galaktionov, M. M. Larionov, and K. A. Podushnikova. 10, 140 (1965) [35, 172 (1965)]

Producing Short Electron Bunches in the Linear Accelerator. (T) E. K. Ostrovskii. 10, 232 (1965) [35, 290 (1965)]

Effect of Loading by the Beam on the Shunt Resistance of Accelerating Systems in Electron Cyclical Accelerators. (T) A. N. Didenko and G. P. Fomenko. 10, 235 (1965) [35, 293 (1965)]

Controlling a Beam of Accelerated Particles in the Irradiation of Thin Targets in the Dubna Synchrophasotron. (E) G. S. Kazanskii and A. P. Tsarenkov. 10, 327 (1965) [35, 414 (1965)]

Theoretical Analysis of the Extraction of Particles from a Synchrotron with Strong Focusing Under the Conditions of Parametric Resonance. (T) I. A. Shukeilo. 10, 333 (1965) [35, 421 (1965)]

Calculation of Field Intensity in the Traveling Wave Linear Accelerator. (T/E) L. A. Makhnenko, A. I. Zykov, and G. D. Kramskoi. 10, 384 (1965) [35, 496 (1965)]

Calculation of the Group Velocity of the Wave and the Damping in the Diaphragmed Waveguide of a Linear Accelerator. (T/E) A. I. Zykov and L. A. Makhnenko. 10, 389 (1965) [35, 502 (1965)]

Determination of the Equivalent Reflection Coefficient of a Diaphragmed Waveguide in a Linear Accelerator. (T/E) A. I. Zykov, L. A. Makhnenko, and G. D. Kramskoi. 10, 393 (1965) [35, 508 (1965)]

One Possibility of Calculating the Envelope of the Trajectory of Particles in Accelerators. (T) Yu. Ya. Lembra. 10, 447 (1965) [35, 574 (1965)]

A Betatron with Spiral Electron Storage. (E/T) E. A. Abramyan, G. I. Budker, G. B. Glagolev, and A. A. Naumov. 10, 477 (1965) [35, 605 (1965)]

Pulsed Iron-Free Synchrotron. (E/T) E. A. Abramyan, I. E. Bender, G. I. Budker, A. Kh. Kadymov, A. A. Naumov, and V. S. Panasyuk. 10, 482 (1965) [35, 612 (1965)]

Flux Stabilization of Particle Beams in the Synchrophasotron of the Joint Institute of Nuclear Research. (E) G. S. Kazanskii, A. I. Mikhailov, and A.P. Tsarenkov. 10, 490 (1965) [35, 623 (1965)]

The Torotron—An Induction Electron Accelerator. (E/T) V. A. Moskalev. 10, 496 (1965) [35, 630 (1965)]

Investigation of a Linear Induction Accelerator. (E/T) E. I. Lutsenko, L. I. Bolotin, Ya. B. Fainberg, and I. F. Kharchenko. 10, 499 (1965) [35, 635 (1965)]

Operation of Diamond Nuclear Particle Counters in a Strong Electric Field. (E) E. A. Afanas'eva. 10, 730 (1965) [35, 951 (1965)]

Automatic Optimization of Intensity of the Betatron Gamma-Ray Beam. (E) N. N. Balamatov and B. I. Goryachev. 10, 839 (1965) [35, 1091 (1965)]

Nonlinear $\nu_r = Nn/q + \Delta$ Resonances in the Sectored Cyclotron. (T) V. P. Belov. 10, 1384 (1966) [35, 1791 (1965)]

Effect of Space Charge on Longitudinal Particle Motion in Accelerator Injection. (T/E) I. M. Samoilov and A. A. Sokolov. 10, 1542 (1966) [36, 2012 (1965)]

Magnetic Surfaces of a Stellarator with an $l = 2$ Winding. (E) M. S. Berezhetskii, S. E. Grebenshchikov, A. P. Popryadukhin, and I. S. Shpigel'. 10, 1662 (1966) [35, 2167 (1965)]

Combined Use of Nuclear Emulsions and Bubble Chambers. (E) V. I. Ostroumov and M. V. Stabnikov. 10, 1706 (1966) [35, 2227 (1965)]

Calculation of the Efficiency of a μ-Meson Channel. (T) N. K. Abrosimov, V. A. Nikolaeva, and S. G. Sherman. 10, 1723 (1966) [35, 2248 (1965)]

Optics and Optical Techniques

Multiray Radiointerferometer for Plasma Diagnostics. (E) V. Ya. Balakhanov, V. D. Rusanov, and A. R. Striganov. 10, 96 (1965) [35, 127 (1965)]

Optical Properties of the Magnets Focusing the Atomic Beam into the Resonator of a Hydrogen Generator. (T) D. L. Kaminskii. 10, 106 (1965) [35, 140 (1965)]

Study of the Luminescence Front Structure in Electromagnetic Shock Tubes. (E) Yu. V. Makarov and A. M. Maksimov. 10, 183 (1965) [35, 223 (1965)]

Effect of Geometrical Parameters on Optical Characteristics of a System of Four Quadrupole Lenses Similar to an Axisymmetric Lens. (T/E) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 340 (1965) [35, 431 (1965)]

Spherical Aberration of the Width of the Line Image in the Combined Quadrupole Lens. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 592 (1965) [35, 759 (1965)]

Third-Order Aberration of the Width of a Line Image in a Combined Quadrupole Lens. (T) L. P. Ovsyannikova and S. Ya. Yavor. 10, 723 (1965) [35, 940 (1965)]

Achromatic Electromagnetic Quadrupole Lens with Noncoincident Axial Field Distributions. II. (T/E) E. V. Shpak and S. Ya. Yavor. 10, 727 (1965) [35, 947 (1965)]

Spherical Aberration of a Combined Quadrupole Lens with a Bell-Shaped Field Distribution. (T) A. D. Dymnikov, T. Ya. Fishkova, and S. Ya. Yavor. 10, 822 (1965) [35, 1068 (1965)]

Plasma Physics

On the Nonlinear Theory of Electron Bunch Interaction in a Plasma with Transverse Waves. (T) L. M. Kovrizhnykh and V. N. Tsytovich. 10, 10 (1965) [35, 14 (1965)]

The Impedance of a Plane Capacitor Completely or Partially Filled with a Plasma. I. (T) A. F. Aleksandrov. 10, 24 (1965) [35, 35 (1965)]

Interaction of a Traveling Electromagnetic Field with Plasma. (T) R. A. Demirkhanov, I. A. Kossyi, N. I. Leont'ev, S. N. Lozovskii, Yu. K. Udovichenko, and T. M. Filatova. 10, 30 (1965) [35, 43 (1965)]

Distribution Functions of Plasma Electrons and Ions in a Weakly-Inhomogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 81 (1965) [35, 108 (1965)]

Effect of the Plasma Density Near the Electrodes on Conductivity in a Transverse Magnetic Field. (E/T) V. P. Pashchenko, I. P. Stakhanov, and A. S. Stepanov. 10, 132 (1965) [35, 165 (1965)]

Ohmic Heating of a Partly Ionized Plasma by a Homogeneous High-Frequency Field. (T) A. G. Litvak, M. I. Petelin, and E. I. Yakubovich. 10, 135 (1965) [35, 168 (1965)]

Study of the Convection of Plasma Electrons by a Traveling Magnetic Wave. (E) R. A. Demirkhanov, I. Ya. Kadysh, I. S. Fursa, and Yu. S. Khodyrev. 10, 174 (1965) [35, 212 (1965)]

The Impedance of a Plane Capacitor Completely or Partially Filled with a Plasma. II. (T) A. F. Aleksandrov. 10, 185 (1965) [35, 226 (1965)]

The Motion of a Plasma Stream in a Toroidal Magnetic Field. (E) G. M. Batanov, M. A. Ivanovskii, and I. S. Shpigel'. 10, 196 (1965) [35, 242 (1965)]

Nonlinear Interaction of a Beam of Charged Particles with Plasma. (T) N. P. Giorgadze. 10, 329 (1965) [35, 416 (1964)]

Excitation of Plasma Oscillations by a Flow of Oscillators. (T) D. G. Lominadze and K. N. Stepanov. 10, 347 (1965) [35, 441 (1965)]

Excitation of Longitudinal Low-Frequency Plasma Oscillations by a Flow of Charged Particles with Anisotropic Distribution Function. (T) D. G. Lominadze and K. N. Stepanov. 10, 352 (1965) [35, 449 (1965)]

Acceleration of Ions in Plasma Formed when the Current is Interrupted by Contacts Placed in Vacuum. (E) M. A. Tyulina. 10, 396 (1965) [35, 511 (1965)]

Experimental Study of Plasma Acceleration Brought About by the Gradient of a UHF Field. (E) I. R. Gekker, T. G. Konstantinova, G. S. Luk'yanchikov, and K. F. Sergeichev. 10, 450 (1965) [35, 577 (1965)]

Conversion of Two Transverse Waves Into a Longitudinal Wave in a Collisionless Plasma. (T) I. S. Danilkin. 10, 524 (1965) [35, 667 (1965)]

A Study of the Properties of Plasma in Crossed Electric and Magnetic Fields. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, and V. T. Tolok. 10, 560 (1965) [35, 717 (1965)]

Nonlinear Damping of Low-Frequency Plasma Waves. (T) R. R. Ramazashvili and N. L. Tsintsadze. 10, 615 (1965) [35, 788 (1965)]

Oscillations of an Electron–Ion Plasma in a Strong Electric Field. (T) V. A. Liperovskii. 10, 736 (1965) [35, 958 (1965)]

Damping of Waves Propagating with a Phase Velocity Higher than the Velocity of Light. (T) A. N. Kondratenko. 10, 739 (1965) [35, 961 (1965)]

Determination of the Velocities of the Plasma in a Glow Discharge in a Rectangular Channel in the Presence of Crossed Fields. (E) I. B. Chekmarev. 10, 742 (1965) [35, 964 (1965)]

Gravitational Separation of Charges in Plasma. (T) M. V. Samokhin. 10, 792 (1965) [35, 1032 (1965)]

Investigation of a Titanium Plasma Source. (E) E. D. Andryukhina and I. S. Shpigel'. 10, 962 (1966) [35, 1242 (1965)]

Polarization of Plasma Moving in a Curved Magnetic Field. (E) V. S. Voitsenya, A. G. Gorbanyuk, I. N. Onishchenko, V. V. Shkoda, and B. G. Safronov. 10, 1032 (1966) [35, 1330 (1965)]

Propagation of Surface Waves in Magnetoactive Plasma. (T) K. N. Stepanov. 10, 1048 (1966) [35, 1349 (1965)]

Formation of Plasma in the Development of a Beam Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, and I. F. Kharchenko. 10, 1064 (1966) [35, 1372 (1965)]

Interaction of Polarized Plasma Streams in a Cusp Field. (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1078 (1966) [35, 1390 (1965)]

Striations in a Hollow Cathode Plasma. (E) B. I. Moskalev. 10, 1095 (1966) [35, 1408 (1965)]

Investigation of the Double Electrical Layer in a Plasma. (E) E. A. Bakulin, E. V. Stepin, and V. V. Shcherbinina. 10, 1102 (1966) [35, 1419 (1965)]

Measurement of Plasma Conductivity by a Radio-Frequency Method. (E/T) A. V. Aktimov and O. R. Konenko. 10, 1126 (1966) [35, 1451 (1965)]

On Longitudinal Oscillations of an Inhomogeneous Plasma. (T) V. Ya. Éidman. 10, 1339 (1966) [35, 1730 (1965)]

Nonlinear Oscillations of a Plasma Behind an Ionization Front. (T) P. M. Kolesnikov and N. A. Khizhnyak. 10, 1344 (1966) [35, 1736 (1965)]

Interaction of a Charged-Particle Beam with a Bounded Plasma. (T) N. P. Giorgadze and D. G. Lominadze. 10, 1349 (1966) [35, 1743 (1965)]

Plasma Entrainment by a Rotating Electromagnetic Field. (T) V. P. Sidorov and T. R. Soldatenkov. 10, 1354 (1966) [35, 1749 (1965)]

Acceleration of Plasma in Combined Constant and High-Frequency Electric Fields. (T) B. P. Kononov. 10, 1358 (1966) [35, 1755 (1965)]

Excitation of Oscillations in Counterstreaming Inhomogeneous Plasma Streams. (T) I. S. Batkov and A. A. Rukhadze. 10, 1477 (1966) [35, 1913 (1965)]

The Passage of a Charged-Particle Beam Through a Plasma. (T) V. N. Tsytovich and V. D. Shapiro. 10, 1485 (1966) [35, 1925 (1965)]

Interaction Between High-Frequency and Ion Acoustic Waves in a Plasma. (E) V. D. Fedorchenko, V. I. Muratov, and B. N. Rutkevich. 10, 1549 (1966) [35, 2021 (1965)]

Decay of a Helium Plasma in a Spherical Chamber. (E) A. I. Anisimov, V. N. Budnikov, and N. I. Vinogradov. 10, 1554 (1966) [35, 2028 (1965)]

Plasma Diagnostics by Light Scattering on Electrons. (R) G. M. Malyshev. 10, 1633 (1966) [35, 2129 (1965)]

Toroidal Device for Adiabatic Plasma Compression. (E) V. E. Golant, M. G. Kaganskii, V. A. Ovsyannikov, and A. D. Piliya. 10, 1669 (1966) [35, 2176 (1965)]

High-Frequency Method for Producing a Dense Plasma in a Metallic Chamber. (E) O. M. Shvets, S. S. Ovchinnikov, V. F. Tarasenko, O. S. Pavlichenko, and V. T. Tolok. 10, 1675 (1966) [35, 2185 (1965)]

Radial Charged Particle Flux in a Discharge Excited by a High-Frequency Traveling Wave (TE). (T/E) I. A. Kossyi. 10, 1678 (1966) [35, 2189 (1965)]

Plasma Radiation

Formation of a Quasineutral Flux of Accelerated Ions in the Plasma Leaving an Ion Source. (E/T) M. D. Gabovich, L. I. Ramanyuk, and E. A. Lozovaya. 10, 70 (1965) [35, 94 (1965)]

Corrections to the Kinetic Coefficients of a Plasma with Large Radiation Pressure as a Result of Compton Scattering. (T) V. I. Vladimirov. 10, 162 (1965) [35, 196 (1965)]

Distribution of Current in a Coaxial Plasma Gun. (E) I. M. Zolototrubov, V. A. Kiselev, and Yu. M. Novikov. 10, 204 (1965) [35, 253 (1965)]

Nonlinear Generation of Plasma Waves by a Beam of Transverse Waves. I. (T) V. N. Tsytovich. 10, 605 (1965) [35, 773 (1965)]

Excitation of Magnetosonic Waves by Moving Radiators. (T) V. P. Dokuchaev and V. D. Logacheva. 10, 619 (1965) [35, 794 (1965)]

Performance of a Coaxial Plasma Source Generating Fast Particles. (E/T) A. D. Timofeev, V. G. Marinin, B. A. Shevchuk, and A. A. Kalmykov. 10, 662 (1965) [35, 858 (1965)]

Diffusion Theory of a Beam-Generated Plasma. (T/E) S. M. Levitskii and I. P. Shashurin. 10, 915 (1966) [35, 1182 (1965)]

Study of Plasma Motion in a Radiation Accelerator by uhf Methods. (E) I. R. Gekker and G. S. Luk'yanchikov. 10, 1026 (1966) [35, 1323 (1965)]

Plasma Stability

An Investigation of Plasma Containment in a Crossed-Field Magnetic Trap. (E) V. G. Zykov, I. A. Stepanenko, V. T. Tolok, and K. D. Sinel'nikov. 10, 45 (1965) [35, 62 (1965)]
Instability and Anamolous Diffusion in a Potassium Plasma. (E) N. S. Buchel'nikova, A. M. Kudryavtsev, and R. A. Salimov. 10, 53 (1965) [35, 72 (1965)]
Excitation of Magnetoacoustic Waves in Colliding Plasma Streams. (T) D. G. Lominadze and K. N. Stepanov. 10, 113 (1965) [35, 148 (1965)]
The Possibility of Instability Formation in a Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 119 (1965) [35, 154 (1965)]
Stability of Two Colliding Plasma Streams in a Magnetic Field. (T) D. G. Lominadze and K. N. Stepanov. 10, 169 (1965) [35, 205 (1965)]
Effect of a Longitudinal High-Frequency Current on the Stability of a Quasiconstant String Discharge. (E) I. M. Roife, P. G. Popov, and S. P. Yakovlev. 10, 208 (1965) [35, 259 (1965)]
Stabilization of Certain Instabilities of a Current-Carrying Plasma Pinch in a Strong Magnetic Field. (T) Yu. V. Vandakurov. 10, 310 (1965) [35, 390 (1965)]
Retarded Development of Flute Instabilities on Strong Interaction of Plasma with a Neutral Gas. (T) Yu. V. Vandakurov. 10, 316 (1965) [35, 398 (1965)]
Study of Some Characteristics of Plasma Captured by a Transverse Magnetic Field. (E) I. I. Demidenko, N. S. Lomino, V. G. Padalka, B. G. Safronov, and K. D. Sinel'nikov. 10, 640 (1965) [35, 823 (1965)]
Plasma Equilibrium in Magnetic Traps. (T) A. P. Popryadukhin. 10, 714 (1965) [35, 927 (1965)]
On Cyclotron Instability of Plasma with a Nonmonotonic Ion-Distribution Function. (T) T. A. Davydova. 10, 787 (1965) [35, 1024 (1965)]
Investigation of a Θ-Pinch Plasma with an Azimuthal Magnetic Field. (E) Ya. F. Volkov, V. G. Dyamlov, and N. I. Mitina. 10, 797 (1965) [35, 1039 (1965)]
Instability of Plasma Under Superheated Conditions. Yu. V. Sanochkin. 10, 898 (1965) [35, 1163 (1965)]
Concerning Fluctuations in a Nonequilibrium Magnetoactive Plasma. (T) A. G. Sitenko and V. N. Radzievskii. 10, 903 (1966) [35, 1165 (1965)]
Stability of a Rotating Plasma Pinch in the Presence of High-Frequency Radial Pulsations. (T) Yu. V. Vandakurov. 10, 1058 (1966) [35, 1364 (1965)]
Time Characteristics of the Microwave Oscillations in the Development of a Beam-Plasma Instability. (E) E. A. Kornilov, O. F. Kovpik, Ya. B. Fainberg, L. I. Bolotin, and I. F. Kharchenko. 10, 1069 (1966) [35, 1378 (1965)]
Instability in an Oscillating-Electron Discharge. I. Microwave Radiation. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, and I. Yu. Adamov. 10, 1082 (1966) [35, 1394 (1965)]
Instability in an Oscillating-Electron Discharge. II. Anomalous Diffusion of the Plasma. (E) O. S. Pavlichenko, L. A. Dushin, Yu. K. Kuznetsov, I. K. Nikol'skii, and I. Yu. Adamov. 10, 1088 (1966) [35, 1401 (1965)]
Drift Waves Propagating Across an External Magnetic Field. (T) A. P. Kostomarov. 10, 1327 (1966) [35, 1713 (1965)]
Stability of a Spatially Inhomogeneous Current in a Plasma. I. Low-Frequency Waves. (T) A. B. Mikhailovskii. 10, 1490 (1966) [35, 1933 (1965)]
Stability of a Spatially Inhomogeneous Current in a Plasma. II. Waves Whose Frequency is Above the Ion Cyclotron Frequency. (T) A. B. Mikhailovskii. 10, 1498 (1966) [35, 1945 (1965)]
Stability of an Ion Beam Injected into a Plasma Across a Magnetic Field. (T) A. B. Mikhailovskii and É. A. Pashitskii. 10, 1507 (1966) [35, 1960 (1965)]
Effect of Electron Heating on the Acoustic Instability of a Plasma in an Electric Field. (T) L. D. Tsendin. 10, 1514 (1966) [35, 1972 (1965)]
Instabilities of Electron Waves in Inhomogeneous Plasma Streams. (T/E) A. B. Mikhailovskii and A. A. Rukhadze. 10, 1644 (1966) [35, 2143 (1965)]

Plasmoids

Resonance Interaction of a Plasmoid with an Electromagnetic Wave in a Waveguide. (E) B. P. Kononov. 10, 33 (1965) [35, 47 (1965)]
Acceleration of Plasma by an H_{11}-Type Electromagnetic Wave in a Circular Waveguide. (E) B. P. Kononov, K. A. Sarksyan, V. A. Silin, and L. É. Tsopp. 10, 36 (1965) [35, 51 (1965)]
Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]
Instability Development in a Plasmoid Moving in a Longitudinal Magnetic Field. (E) A. A. Kalmykov, S. A. Trubchninov, and V. A. Naboka. 10, 137 (1965) [35, 169 (1965)]
Motion of Plasmoids in Field-Free Space. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 505 (1965) [35, 643 (1965)]
Application of Fast Particle Beams to the Study of Plasmoids. (E) L. I. Krupnik, N. G. Shulika, and P. A. Demchenko. 10, 556 (1965) [35, 711 (1965)]
Magnetic Moment of a Plasmoid Entering a Uniform Longitudinal Magnetic Field. (T) N. A. Khizhnyak. 10, 647 (1965) [35, 833 (1965)]
Motion of a Plasmoid in the Magnetic Field of a Toroidal Solenoid. (T) N. A. Khizhnyak. 10, 655 (1965) [35, 847 (1965)]
Plasmoid Formation in Pulsed Accelerators. (E) B. A. Osadin. 10, 1029 (1966) [35, 1327 (1965)]
Motion of Plasmoids in a Uniform Axially-Symmetric Magnetic Field. (E) Yu. S. Azovskii, I. T. Guzhovskii, Yu. P. Mazalov, and V. M. Pistryak. 10, 1092 (1966) [35, 1405 (1965)]
Acceleration of Pulsation Plasmoids. (T) P. M. Kolesnikov. 10, 1219 (1966) [35, 1577 (1965)]
Polarized Interaction of Counterstreaming Plasmoids in a Trap with Combined Fields (Ioffe Mirror). (E) V. G. Zykov, I. A. Stepanenko, and V. T. Tolok. 10, 1225 (1966) [35, 1585 (1965)]
Polarization of Plasma Moving in a Helical Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1232 (1966) [35, 1594 (1965)]
Polarization of Plasma Moving in a Toroidal Magnetic Field. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1235 (1966) [35, 1598 (1965)]
Polarization of Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. (E) B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok. 10, 1238 (1966) [35, 1602 (1965)]

Resonance

Resonance Interaction of a Plasmoid with an Electromagnetic Wave in a Waveguide. (E) B. P. Kononov. 10, 33 (1965) [35, 47 (1965)]
Resonance Charge Transfer in Inert Gases. (T) B. M. Smirnov and M. I. Chibisov. 10, 88 (1965) [35, 117 (1965)]
Experimental Investigation of the Fundamental-Mode Field Distribution in Open Resonators with Spherical Mirrors. (E) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 223 (1965) [35, 279 (1965)]
Cherenkov Radiation During the Motion of Particles in a Cylindrical Resonator Located in a Focusing Magnetic Field. (T) V. P. Grigor'ev and A. N. Didenko. 10, 238 (1965) [35, 298 (1965)]
Theoretical Analysis of the Extraction of Particles from a Synchrotron with Strong Focusing Under the Conditions of Parametric Resonance. (T) I. A. Shukeilo. 10, 333 (1965) [35, 421 (1965)]

Quality Factor of a Spherical Resonator. (T/E) R. S. Kuznetskii. 10, 362 (1965) [35, 465 (1965)]

Investigation of the Properties of Superconducting Resonators at a Frequency of 1100 Mc. (E) I. S. Sidorenko and E. I. Revutskii. 10, 583 (1965) [35, 748 (1965)]

Diffraction Losses of an Open Resonator Formed by Mirrors with Absorbing Strips. (E) V. S. Letokhov. 10, 629 (1965) [35, 809 (1965)]

Investigation of a Resonance High-Frequency Discharge in Crossed Fields. (E) D. A. Ganichev, S. A. Fridrikhov, B. M. Ashkinadze, and A. B. Solgan. 10, 633 (1965) [35, 813 (1965)]

Concerning the Effect of Plasma Resonance on Surface Wave Propagation in a Nonuniform Plasma. (T) K. N. Stepanov. 10, 773 (1965) [35, 1002 (1965)]

A Resonance Particle Counter. (T) G. L. Suchkin. 10, 992 (1966) [35, 1280 (1965)]

Triangular Resonator for Coherent Light Sources. (T) A. É. Yunovich. 10, 998 (1966) [35, 1288 (1965)]

Effect of Inhomogeneity on the Properties of a Circular Resonator. (T) A. D. Sushkov and I. B. Vendik. 10, 1244 (1966) [35, 1610 (1965)]

Nonlinear $p_r = Nn/q + \Delta$ Resonances in the Sectored Cyclotron. (T) V. P. Belov. 10, 1384 (1966) [35, 1791 (1965)]

Instability of Confocal Systems. (E/T) S. F. Dyubko, V. V. Kamyshan, and V. P. Sheiko. 10, 1394 (1966) [35, 1806 (1965)]

Measurements of Magnetic Field at the Surface of a Nb–Zr Superconductor by an Electron Paramagnetic Resonance Method. (E) N. I. Krivko. 10, 1468 (1966) [35, 1906 (1965)]

Open Cylindrical Resonators in Plasma Research. (E) A. I. Anisimov, V. N. Budnikov, N. I. Vinogradov, and V. E. Golant. 10, 1566 (1966) [35, 2042 (1965)]

Resonance Charge Transfer in Zinc and Cadmium Vapor. (E) R. M. Kushnir, B. M. Palyukh, and L. S. Savchik. 10, 1695 (1966) [35, 2212 (1965)]

Scattering

Corrections to the Kinetic Coefficients of a Plasma with Large Radiation Pressure as a Result of Compton Scattering. (T) V. I. Vladimirov. 10, 162 (1965) [35, 196 (1965)]

Scattering of X Rays from a Point Source in Gases, Liquids, and Amorphous Solids with Consideration of the Duration of Coherent Radiation. (T) P. A. Bezirganyan. 10, 287 (1965) [35, 359 (1965)]

Scattering of X Rays in Gases, Liquids, and Amorphous Solids for Plane Incident Waves. (T) P. A. Bezirganyan. 10, 293 (1965) [35, 368 (1965)]

Angular Regularities in the Scattering of Inert Gas Ions Through Small Angles. (E) E. S. Mashkova and V. A. Molchanov. 10, 1024 (1966) [35, 1321 (1965)]

Scattering of X Rays in a Gas Consisting of Atoms of Finite Size, Considering the Duration of the Coherent Radiation Pulse. (T) P. A. Bezirganyan. 10, 1314 (1966) [35, 1701 (1965)]

Semiconductors

Coherent Radiation from Gallium-Arsenide Luminescent Diodes with a Triangular Resonator. (E) É. A. Poltoratskii, V. M. Stuchebnikov, and A. É. Yunovich. 10, 1173 (1966) [35, 1516 (1965)]

Hall-Effect Transducers Using n-Type Gallium Arsenide. (E) N. V. Zotova, D. N. Nasledov, and O. M. Sreseli. 10, 1292 (1966) [35, 1672 (1965)]

Shock Waves

The Structure of Weak Shock Waves Including the Larmor Radius of the Ion. (T) A. D. Pataraya. 10, 165 (1965) [35, 200 (1965)]

Study of the Luminescence Front Structure in Electromagnetic Shock Tubes. (E) Yu. V. Makarov and A. M. Maksimov. 10, 183 (1965) [35, 223 (1965)]

Investigation of the Structure of the Shock Waves in an Electromagnetic Shock Tube. (E) Yu. V. Makarov and A. M. Maksimov. 10, 510 (1965) [35, 650 (1965)]

Spectroscopic Studies in an Electromagnetic Shock Tube. (E) Y Yu. V. Makarov and A. M. Maksimov. 10, 517 (1965) [35, 658 (1965)]

The Structure of the Front of Electromagnetic Shock Waves in Transmission Lines with Nonlinear Parameters. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 531 (1965) [35, 677 (1965)]

The Structure of Shock Waves in Nonlinear Transmission Lines with Delayed Excitation of the Internal Degrees of Freedom. (T) A. M. Belyantsev, A. V. Gaponov, and G. I. Freidman. 10, 540 (1965) [35, 690 (1965)]

Production and Investigation of Shock Waves and Supersonic Plasma Streams in an Electric Shock Tube. (E) L. I. Grechikhin and L. Ya. Min'ko. 10, 1128 (1966) [35, 1454 (1965)]

Bolometer Measurement of Emission from Argon Ionized by a Shock Wave. (E) Yu. N. Redkoborodyi and V. I. Fedulov. 10, 1275 (1966) [35, 1652 (1965)]

Space Charge

Formation of a Space Charge in a High-Frequency Electric Field in Air. (E/T) A. A. Zhukov. 10, 116 (1965) [35, 151 (1965)]

The Influence of Space Charge in Klystron-Type Bunchers. (T/E) B. A. Snedkov. 10, 226 (1965) [35, 282 (1965)]

Note on the Space-Charge Effect of Particles on Their Focusing and on Their Energy Spread in the Field of a Planar Capacitor. (T/E) A. S. Shapovalov. 10, 810 (1965) [35, 1053 (1965)]

Minimum-Length Electron Bunches in a Klystron Buncher with Space-Charge Taken Into Account. (T/E) V. A. Galkov and B. A. Snedkov. 10, 1367 (1966) [35, 1767 (1965)]

Effect of Space Charge on Longitudinal Particle Motion in Accelerator Injection. (T/E) I. M. Samoilov and A. A. Sokolov. 10, 1542 (1966) [35, 2012 (1965)]

Spectra

Transformation of a Longitudinal High-Frequency Field by an Ion-Sound Spectrum. (T) I. A. Daneliya. 10, 142 (1965) [35, 174 (1965)]

Spectroscopy

Spectroscopic Investigation of the Plasma of Colliding Plasmoids. (E) V. G. Zykov, I. A. Stepanenko, L. A. Dushin, I. K. Nikol'skii, O. S. Pavlichenko, and V. T. Tolok. 10, 40 (1965) [35, 56 (1965)]

On the Design of Double-Focusing Magnetic Spectrometers. (T) N. I. Tarantin and A. V. Dem'yanov. 10, 154 (1965) [35, 186 (1965)]

Spectroscopic Studies in an Electromagnetic Shock Tube. (E) Y Yu. V. Makarov and A. M. Maksimov. 10, 517 (1965) [35, 658 (1965)]

Superconductivity

Investigation of the Properties of Superconducting Resonators at a Frequency of 1100 Mc. (E) I. S. Sidorenko and E. I. Revutskii. 10, 583 (1965) [35, 748 (1965)]

Calculation of Superconducting Solenoid Characteristics. (T/E) V. G. Manuilov. 10, 828 (1965) [35, 1077 (1965)]

Superconducting Niobium–Gallium Alloys. (E) Z. A. Guts, N. I. Krivko, V. K. Morozova, T. A. Sidorova, and A. A. Fogel'. 10, 1295 (1966) [35, 1675 (1965)]

Measurements of Magnetic Field at the Surface of a Nb–Zr Superconductor by an Electron Paramagnetic Resonance Method. (E) N. I. Krivko. 10, 1468 (1966) [35, 1906 (1965)]

Surface Phenomena

Surface Ionization as Affected by Migration of Adatoms Along an Irregular Surface. (T) N. D. Potekhina. 10, 254 (1965) [35, 317 (1965)]

Surface Tension of H_2–HD and HD–D_2 Solutions. (E) V. N. Grigor'ev. 10, 266 (1965) [35, 332 (1965)]

Positive Surface Ionization of Potassium on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Ptitsyn. 10, 410 (1965) [35, 528 (1965)]

Effect of Electric Field on Surface Ionization on Metals. (T/E) L. N. Dobretsov. 10, 416 (1965) [35, 535 (1965)]

Emission of Positive and Negative Molecular Ions from Heated Surfaces. (E) I. N. Bakulina, É. Ya. Zandberg, and N. I. Ionov. 10, 437 (1965) [35, 562 (1965)]

Concerning the Effect of Plasma Resonance on Surface Wave Propagation in a Nonuniform Plasma. (T) K. N. Stepanov. 10, 773 (1965) [35, 1002 (1965)]

Surface Ionization of Li, Na, K, and Cs Atoms and LiCl, KCl, and CsCl Molecules on Polycrystalline Rhenium. (E/T) É. Ya. Zandberg and A. Ya. Tontegode. 10, 858 (1965) [35, 1115 (1965)]

Surface Ionization of Molecules of Alkali Halide Salts. (T/E) G. M. Pyatigorskii. 10, 867 (1965) [35, 1127 (1965)]

Temperature Hysteresis in Positive Surface Ionization and the Work Function of a Homogeneous Emitter. (E) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 871 (1965) [35, 1132 (1965)]

Rotating Magnetic Field and Surface Current of a Multiphase System with Tapered Poles. (T) R. S. Kuznetskii. 10, 889 (1965) [35, 1154 (1965)]

Positive Surface Ionization of Na on Textured Platinum Ribbons. (E) É. F. Chaikovskii and G. V. Ptitsyn. 10, 893 (1965) [35, 1158 (1965)]

Small Postdischarge Emission as an Indicator of the Surface State of Electrodes in Experiments of Vacuum Breakdown. (E) P. N. Chistyakov and N. V. Tatarinova. 10, 1035 (1966) [35, 1333 (1965)]

Propagation of Surface Waves in Magnetoactive Plasma. (T) K. N. Stepanov. 10, 1048 (1966) [35, 1349 (1965)]

Optimum Conditions and Thresholds for Positive Surface Ionization. (E/T) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 1156 (1966) [35, 1493 (1965)]

Surface Ionization of LiCl on Rhenium. (T) N. D. Potekhina. 10, 1280 (1966) [35, 1658 (1965)]

Figures of Equilibrium of Toroidal Current Surfaces in a Gas in the Presence of Surface Tension. (T) P. Kh. Byrnev and I. M. Matora. 10, 1363 (1966) [35, 1762 (1965)]

Surface Ionization on Silicon. (T/E) É. Ya. Zandberg and V. I. Paleev. 10, 1602 (1966) [35, 2092 (1965)]

Simultaneous Ionization of Lithium Fluoride Molecules and Calcium, Neodymium, and Indium Atoms on a Tungsten Surface. (E) M. A. Mittsev. 10, 1621 (1966) [35, 2117 (1965)]

Superposed Undamped Surface Waves on a Plane Grating. (T) A. I. Adonina. 10, 1718 (1966) [35, 2242 (1965)]

Thermal Properties

Some Thermal Emission Properties of Polycrystalline Rhenium Wires. (E) É. Ya. Zandberg and A. Ya. Tontegode. 10, 260 (1965) [35, 325 (1965)]

Measurement of the Temperature of Free Electrons in a Rarefied Acetylene–Air Flame. (E) V. I. Tverdokhlebov and M. E. Tretenko. 10, 802 (1965) [35, 1044 (1965)]

Temperature Hysteresis in Positive Surface Ionization and the Work Function of a Homogeneous Emitter. (E) É. F. Chaikovskii, G. M. Pyatigorskii, and G. V. Ptitsyn. 10, 871 (1965) [35, 1132 (1965)]

Effect of Magnetic and Electric Fields on the Electron Temperature in an MHD Channel. (T) I. I. Shakhnov and I. B. Cherkmarev. 10, 1054 (1966) [35, 1359 (1965)]

Mass-Spectrometer Determination of the Heat of Vaporization of Atoms and Positive Ions in Sublimation of Polycrystalline Rhenium, Tungsten, Tantalum, and Molybdenum. (E) É. Ya. Zandberg, N. I. Ionov, and A. Ya. Tontegode. 10, 1164 (1966) [35, 1504 (1965)]

Thermal Fluctuations in Linear Passive Systems. (T) A. A. Krasovskii. 10, 1192 (1966) [35, 1537 (1965)]

Thermal Diffusion Effect. I. (E/T) L. S. Kotousov. 10, 1698 (1966) [35, 2215 (1965)]

Thermal Diffusion Effect. II. (E/T) L. S. Kotousov. 10, 1702 (1966) [35, 2221 (1965)]

Thermodynamics

A Contribution to the Thermodynamic Theory of the Kirkendall Effect. (T) P. E. Suetin and P. V. Volobuev. 10, 1305 (1966) [35, 1689 (1965)]

On Electrostatic Charge Separation in a Plasma in Thermodynamic Equilibrium. (T) M. V. Samokhin. 10, 1332 (1966) [35, 1720 (1965)]

Thermoelectricity

Current Oscillations in a Thermoelectron Energy Converter. (T/E) I. P. Stakhanov and A. S. Stepanov. 10, 100 (1965) [35, 132 (1965)]

Temperature and Density Distribution in a High-Temperature Steady-State Arc. (T) S. G. Alikhanov and S. P. Ivaniya. 10, 433 (1965) [35, 557 (1965)]

The Temperature Dependence of Current Rectified by Electroluminescent Condensers. (T) M. V. Fok and Yu. P. Chukuva. 10, 877 (1965) [35, 1139 (1965)]

Turbulence

The Characteristics of the Transverse Magnetic Field Effect on Turbulent Flow of Liquid Metal at Different Reynolds Numbers. (E) G. G. Branover and O. A. Lielausis. 10, 191 (1965) [35, 235 (1965)]

Turbulent Flow of a Charged Liquid in a Plane Nonconducting Tube. (T) G. N. Kopylov. 10, 1041 (1966) [35, 1337 (1965)]

Vacuum Technology

Energy Release in a High-Current Vacuum Discharge. (E) B. A. Osadin. 10, 952 (1966) [35, 1230 (1965)]

Supersonic Hydrogen Jet in Vacuum. (E) V. B. Yuferov, V. A. Kovalenko, E. I. Skibenko, and F. I. Busol. 10, 1177 (1966) [35, 1522 (1965)]

Small Postdischarge Emission as an Indicator of the Surface State of Electrodes in Experiments of Vacuum Breakdown. (E) P. N. Chistyakov and N. V. Tatarinova. 10, 1035 (1966) [35, 1333 (1965)]

Waveguides

Propagation of Low-Energy Electromagnetic Waves in a Structural Waveguide and the Radiation from a Charge Traversing Along Its Axis. (T) O. A. Kolpakov, V. I. Kotov, and Om-San-Kha. 10, 18 (1965) [35, 26 (1965)]

Resonance Interaction of a Plasmoid with an Electromagnetic Wave in a Waveguide. (E) B. P. Kononov. 10, 33 (1965) [35, 47 (1965)]

Acceleration of Plasma by an H_{11}-Type Electromagnetic Wave in a Circular Waveguide. (E) B. P. Kononov, K. A. Sarksyan, V. A. Silin, and L. É. Tsopp. 10, 36 (1965) [35, 51 (1965)]

Radiation of a Point Charge in a Waveguide in the Presence of an External Magnetic Field. (E) É. D. Gazazyan and O. S. Mergelyan. 10, 125 (1965) [35, 158 (1965)]

Radiation from the Open End of a Planar Semiinfinite Waveguide. (T/E) Yu. M. Aivazyan and D. M. Sedrakyan. 10, 358 (1965) [35, 459 (1965)]

Calculation of the Phase Velocity of the Wave in the Diaphragmed Waveguide of a Linear Accelerator. (T/E) A. I. Zykov and L. A. Makhnenko. 10, 379 (1965) [35, 489 (1965)]

Calculation of Field Intensity in the Traveling Wave Linear Accelerator. (T/E) L. A. Makhnenko, A. I. Zykov, and G. D. Kramskoi. 10, 384 (1965) [35, 496 (1965)]

Calculation of the Group Velocity of the Wave and the Damping in the Diaphragmed Waveguide of a Linear Accelerator. (T/E) A. I. Zykov and L. A. Makhnenko. 10, 389 (1965) [35, 502 (1965)]

Determination of the Equivalent Reflection Coefficient of a Diaphragmed Waveguide in a Linear Accelerator. (T/E) A. I. Zykov, L. A. Makhnenko, and G. D. Kramskoi. 10, 393 (1965) [35, 508 (1965)]

Cherenkov Radiation of an Annular Current in a Brillouin Cloud. (T) D. G. Lominadze. 10, 441 (1965) [35, 568 (1965)]

High-Frequence Focusing in Linear Accelerators. (T/E) L. A. Makhnenko, V. I. Pakhomov, and K. N. Stepanov. 10, 486 (1965) [35, 618 (1965)]

The Use of the Normal Mode Method for Designing Iris-Loaded Waveguides of Rectangular Cross Section. (T) A. N. Didenko. 10, 744 (1965) [35, 967 (1965)]

Interaction of Circularly Polarized Waves in a Cold Plasma. (T) N. P. Giorgadze. 10, 912 (1966) [35, 1177 (1965)]

Investigation of Hybrid Waves in a Circular Waveguide Partially Filled with Dielectric. (T/E) V. A. Vagin and V. I. Kotov. 10, 987 (1966) [35, 1273 (1965)]

Electromagnetic Properties of an Anisotropically-Loaded Rectangular Waveguide. (T) A. M. Goncharenko. 10, 1121 (1966) [35, 1444 (1965)]

Power Flow in Anisotropically-Loaded Helical Waveguides. (T) B. V. Kondrat'ev. 10, 1123 (1966) [35, 1447 (1965)]

Radiation Due to Passage of a Magnetic Dipole Through a Cylindrical Cavity or a Waveguide with a Periodic Structure. (T) O. A. Kolpakov and V. I. Kotov. 10, 1649 (1966) [35, 2150 (1965)]

X Rays and Gamma Rays

On the Precision of Determining Fine-Structure Characteristics by the X-Ray Method. (T) A. S. Kagan and V.M. Snovidov. 10, 284 (1965) [35, 355 (1965)]

Scattering of X Rays from a Point Source in Gases, Liquids, and Amorphous Solids with Consideration of the Duration of Coherent Radiation. (T) P. A. Bezirganyan. 10, 287 (1965) [35, 359 (1965)]

Scattering of X Rays in Gases, Liquids, and Amorphous Solids for Plane Incident Waves. (T) P. A. Bezirganyan. 10, 293 (1965) [35, 368 (1965)]

Automatic Optimization of Intensity of the Betatron Gamma-Ray Beam. (E) N. N. Balamatov and B. I. Goryachev. 10, 839 (1965) [35, 1091 (1965)]

Scattering of X Rays in a Gas Consisting of Atoms of Finite Size, Considering the Duration of the Coherent Radiation Pulse. (T) P. A. Bezirganyan. 10, 1314 (1966) [35, 1701 (1965)]